

SIEMENS



SINOPLUS low-voltage electrical products

Price List สำหรับผลิตภัณฑ์ไฟฟ้าแรงดันต่ำ
และอุปกรณ์ควบคุมในอุตสาหกรรม

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SINOPLUS ความเรียบง่ายที่ทรงพลัง

ค้นพบ ความเรียบง่าย ที่ตรงพลัง กับ SINOPLUS

SINOPLUS มาตราฐานคุณภาพจาก Siemens ใช้งานง่าย คุ่มค่า และประหยัดต้นทุน เหมาะสำหรับระบบไฟฟ้าในอาคาร โรงงานอุตสาหกรรม และโครงสร้างพื้นฐานต่างๆ ผลิตภัณฑ์ไฟฟ้าแรงดันต่ำของเรา ครบครัน ทั้งระบบป้องกัน ควบคุม สวิตช์ และวัดค่าไฟฟ้า ช่วยเพิ่มประสิทธิภาพการทำงาน ลดค่าใช้จ่ายในการดำเนินงานและการลงทุน พร้อมลดผลกระทบต่อสิ่งแวดล้อม เราพัฒนาผลิตภัณฑ์อย่างต่อเนื่อง เพื่อมอบโซลูชันที่เรียบง่าย เชื่อถือได้ และใช้งานได้จริง ช่วยให้ผู้เชี่ยวชาญทำงานได้คล่องตัวขึ้นและจบโครงการได้เร็วกว่าเดิม



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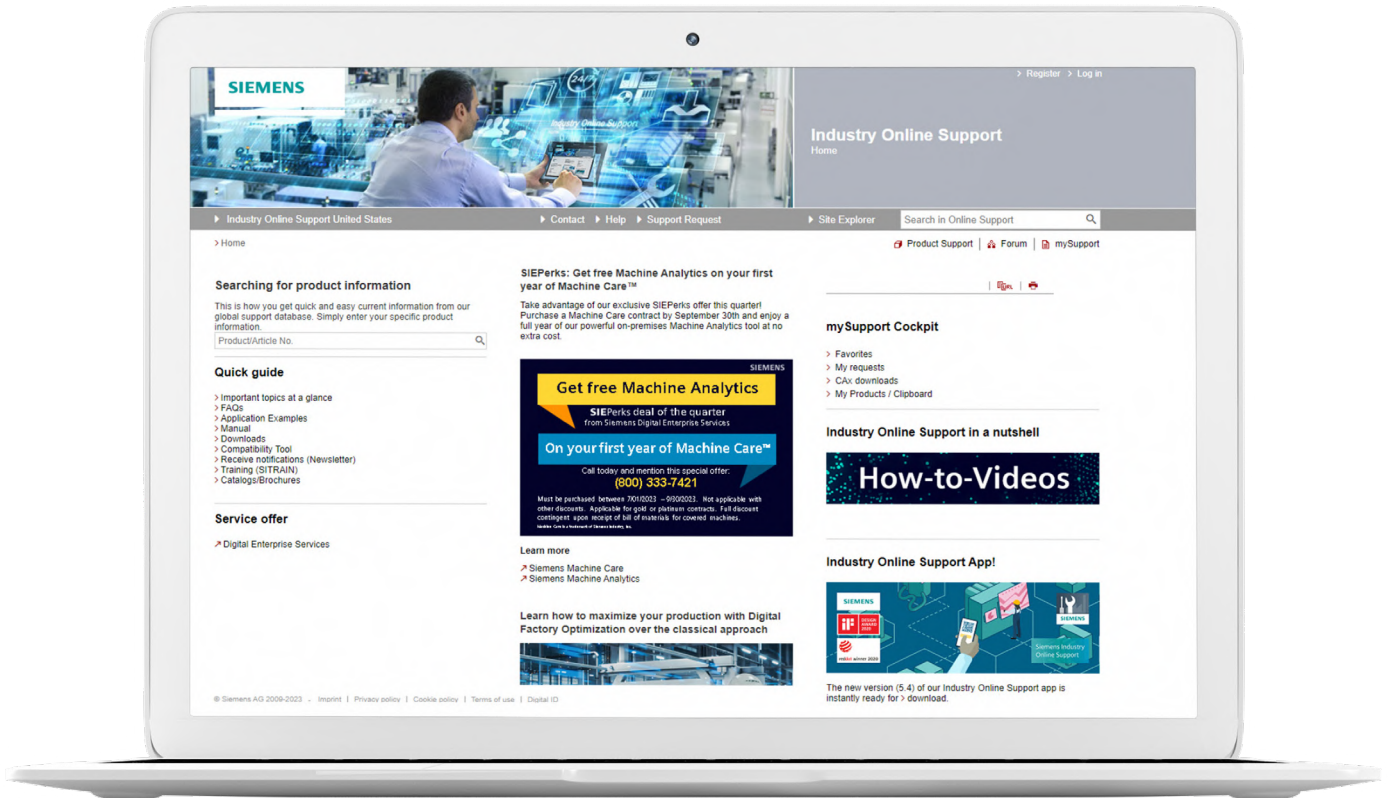


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3WJ air circuit breakers

SINOPLUS ความเรียบง่ายที่ทรงพลัง

Selection & ordering data

MLFB Structure: Basic configuration for AC circuit breakers and AC non-automatic circuit breakers.

		5	6	7	8	9	10	11	12	13	14	15	16	Z
3WJ1														
Switching device														
Frame size	1	1												
	2	2												
			SZ 1	SZ 2										
Max. rated current $I_{n\max}$	800A	■	-			0	8							
	1000A	■	-			1	0							
	1250A	■	-			1	2							
	1600A	■	-			1	6							
	2000A	-	■			2	0							
	2500A	-	■			2	5							
	3200A	-	■			3	2							
	4000A	-	■			4	0							
Breaking capacity	Breaking capacity S	■	-	50/50kA		2								
I_{cu}/I_{cs} (kA), I_{cw} for 1s (kA) at 440V AC		-	■	55/55kA		2								
AC non-automatic circuit breakers			ETU			A	A							
Circuit breakers, display with current metering														
Electronic trip unit (ETU)			ETU350WJ:LSI			A	E							
			ETU360WJ:LSING			A	F							
Number of poles	Fixed-mounted					3 pole				0				
						4 pole				1				
	Withdrawable					3 pole				3				
						Without position signaling switch and without shutter				4				
						4 pole				5				
						Without position signaling switch and with shutter				6				
						3 pole								
						4 pole								
Connection			SZ 1	SZ 2										
Number of mounting	Fixed-mounted ⁽¹⁾	■	■	Vertical						1				
		■	■	Horizontal						2				
		■	■	Vertical on top / horizontal at the bottom						5				
		■	■	Horizontal on top / vertical at the bottom						6				
	Withdrawable ⁽¹⁾	■	■	Without guide frame						0				
		■	■	Vertical						1				
		■	■	Horizontal						2				
		■	■	Vertical on top / horizontal at the bottom						5				
		■	■	Horizontal on top / vertical at the bottom						6				
Spring charging motor (M), auxiliary switches (AUX)														
	Without spring charging motor and without auxiliary switches									0				
	Without spring charging motor but with auxiliary switches 2 NO, 2 NC			S1, S2						1				
	Auxiliary switches 2 NO, 2 NC and spring charging motor			S1, S2										
	Spring charging motor		24V DC							2				
	Spring charging motor		110-127V AC / 110-125V DC							3				
	Spring charging motor		220-240V AC / 220-250V DC							4				
	Auxiliary switches 4 NO, 4 NC and spring charging motor			S5, S6										
	Spring charging motor		24V DC							5				
	Spring charging motor		110-127V AC / 110-125V DC							6				
	Spring charging motor		220-240V AC / 220-250V DC							7				
Note:														
4000A is available for fixed-mounted vertical ⁽¹⁾ and withdrawal vertical ⁽¹⁾ .														
Crank handle is not part of the standard scope of supply, to be ordered as an accessory.														

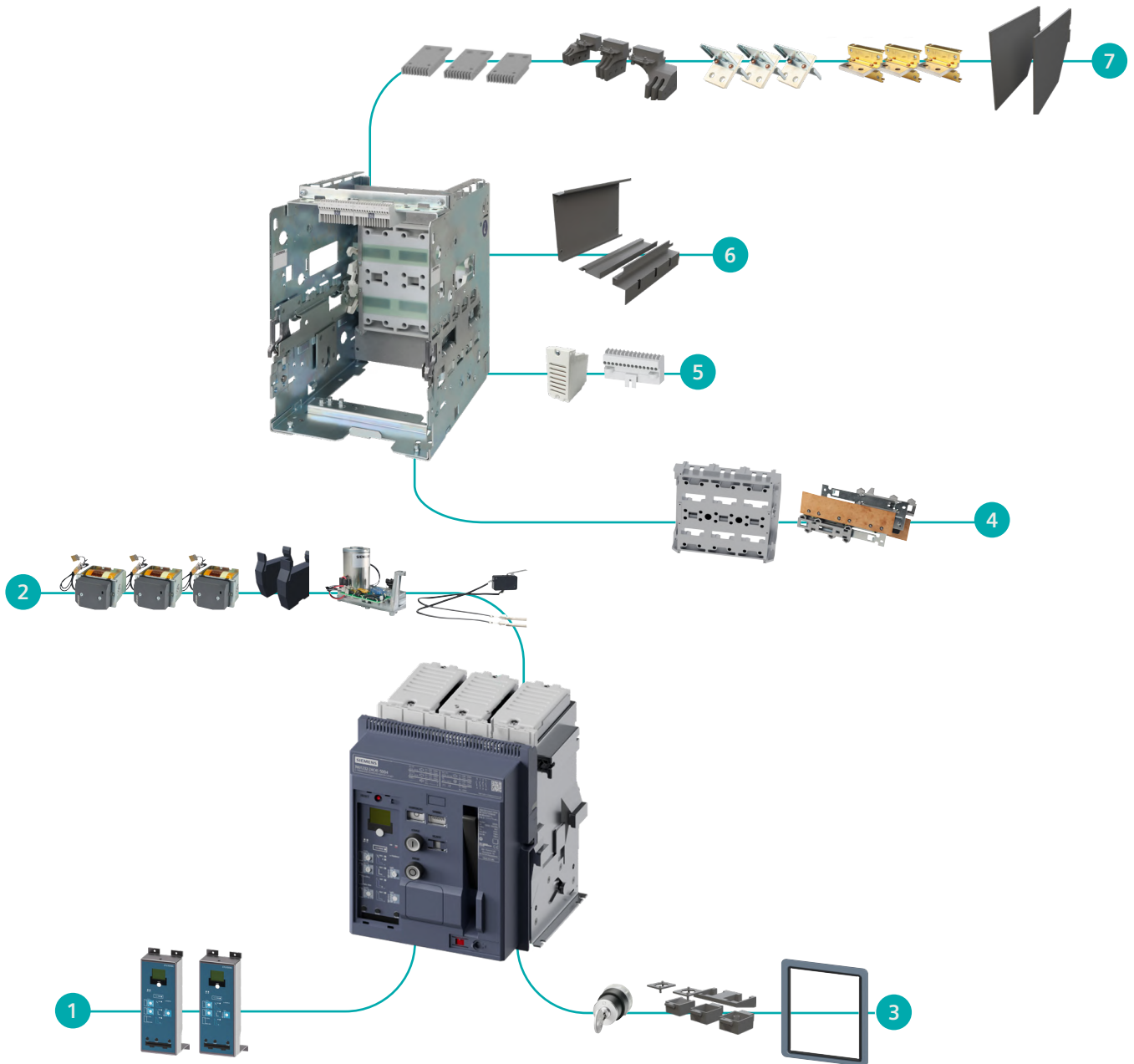
Selection & ordering data

Basic configuration for AC circuit breakers and AC non-automatic circuit breakers.

3WJ1		5	6	7	8	9	10	11	12	13	14	15	16	Z
Closing coil														
Without closing coil														A
Closing coil (CC)														
Closing coil														B
Closing coil														C
Closing coil														D
1st auxiliary release														
Without 1st auxiliary release														A
Shunt trip (ST)														
Shunt trip														B
Shunt trip														C
Shunt trip														D
Undervoltage release (UVR), instantaneous (≤ 80 ms), short-delay (≤ 200 ms)														
UVR														E
UVR														F
UVR														G
UVR														H
Undervoltage release (UVR-t), can be delayed between 0.2 s and 3.2 s														
UVR-t														J
UVR-t														K
UVR-t														L
2nd auxiliary release														
Without 2nd auxiliary release														0
Shunt trip (ST), suitable for continuous duty														
Shunt trip														1
Shunt trip														3
Shunt trip														4
Z options														
Door sealing frame (IP41)														T40
Trip unit cover														F40
Position signal switch (1x connected, 1x test, 1x disconnected)														R15
Position signal switch (3x connected, 2x test, 1x disconnected)														R16
Neutral CT for 4th Pole														F23
Mutual mechanical interlock - Bowden for fixed breakers with 2m Bowden cable														S55
Mutual mechanical interlock - Bowden for drawout breakers with 2m Bowden cable														R55
Locking systems - Castell														S05
Door interlock - To prevent the opening of the control cabinet door in the ON position														S30
Door interlock - To prevent the opening of the control cabinet door in the connected position														R30
5 digit operating counter														C01
Ready-to-close														C22
Trip signal switch														K07
Special packaging														P61
Note:														
4000A is available for fixed-mounted vertical ⁽¹⁾ and withdrawal vertical ⁽¹⁾ .														
Crank handle is not part of the standard scope of supply, to be ordered as an accessory.														

3WJ Overview

System overview



- 1 Electronic trip unit (ETU)
- 2 Spring charging motor, auxiliary switches, closing coil, shunt trip, under voltage releases
- 3 Various interlocking devices
- 4 Guide frame, shutter, position indicator switch
- 5 Arc chute, secondary disconnect terminal
- 6 Arc chute cover
- 7 Main connection, phase barrier

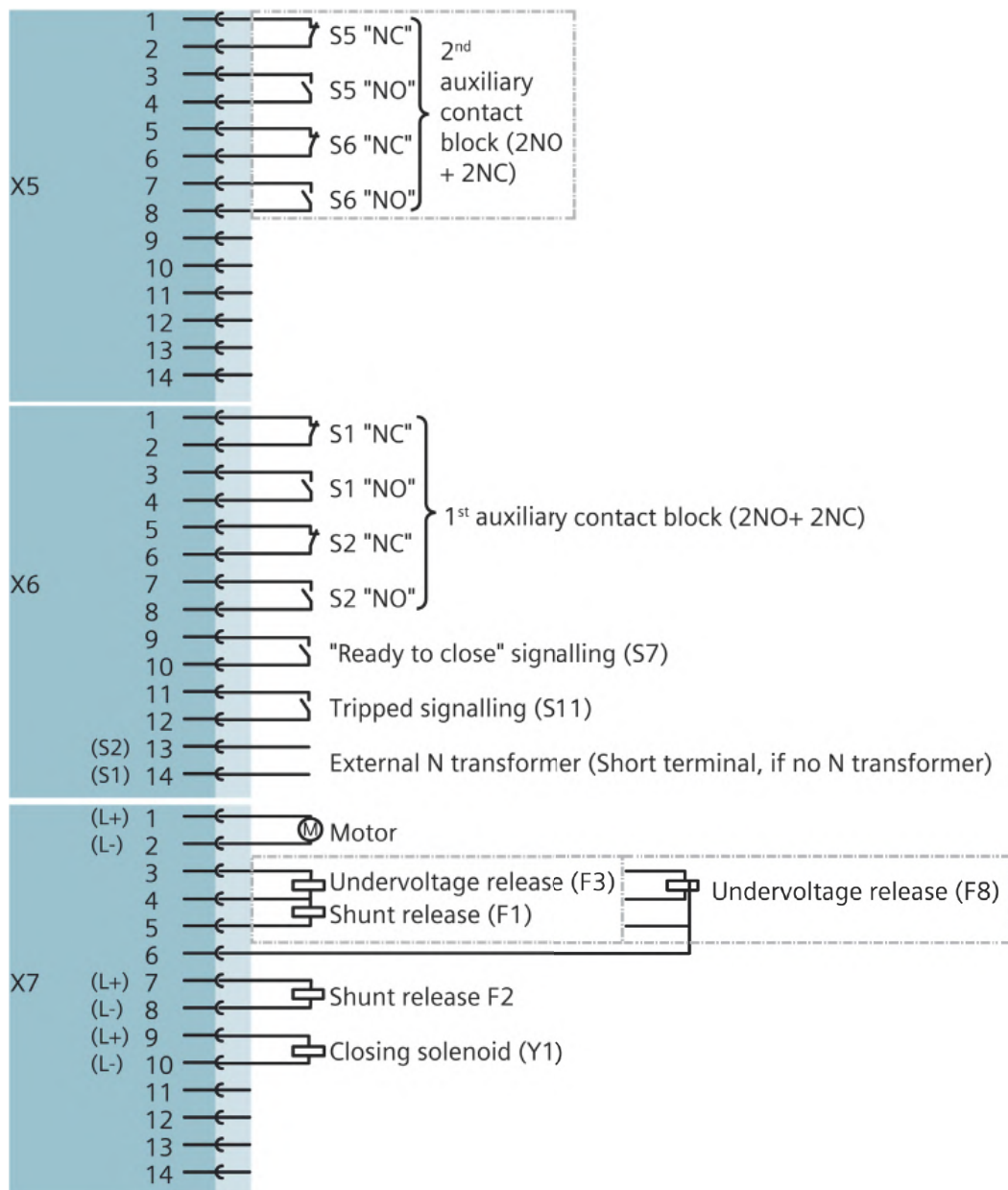
Wiring diagram

Terminal connection diagram of secondary disconnect terminals

Terminal connection diagram

The following overview shows which part of the internal equipment is connected to which part of the secondary disconnect terminals, i.e., this is a complete auxiliary and control wiring diagram of the circuit breakers.

For more information on the detailed wiring of the accessories, refer to the individual operating instructions of the respective accessory.



Selection & ordering data

ETU 350WJ LSI						
Size	I Rated		Fixed mounted 3-pole	Unit Price (THB)	Withdrawable 3-pole	List price per PU (Per Unit)
	A	KA	Article No.		Article No.	
I	800	50	3WJ1108-2AE02-1AA0-Z T40+F40+K07	99,300	3WJ1108-2AE52-1AA0-Z T40+F40+K07+R15	129,100
	1000		3WJ1110-2AE02-1AA0-Z T40+F40+K07	103,400	3WJ1110-2AE52-1AA0-Z T40+F40+K07+R15	132,000
	1250		3WJ1112-2AE02-1AA0-Z T40+F40+K07	107,500	3WJ1112-2AE52-1AA0-Z T40+F40+K07+R15	141,300
	1600		3WJ1116-2AE02-1AA0-Z T40+F40+K07	124,800	3WJ1116-2AE52-1AA0-Z T40+F40+K07+R15	152,700
II	2000	55	3WJ1220-2AE02-1AA0-Z T40+F40+K07	137,100	3WJ1220-2AE52-1AA0-Z T40+F40+K07+R15	171,400
	2500		3WJ1225-2AE02-1AA0-Z T40+F40+K07	177,500	3WJ1225-2AE52-1AA0-Z T40+F40+K07+R15	222,000
	3200		3WJ1232-2AE02-1AA0-Z T40+F40+K07	220,000	3WJ1232-2AE52-1AA0-Z T40+F40+K07+R15	271,600
	4000		3WJ1240-2AE01-1AA0-Z T40+F40+K07	326,300	3WJ1240-2AE51-1AA0-Z T40+F40+K07+R15	397,200











ETU 360WJ LSING						
Size	I Rated		Fixed mounted 3-pole	Unit Price (THB)	Withdrawable 3-pole	List price per PU (Per Unit)
	A	KA	Article No.		Article No.	
I	800	50	3WJ1108-2AF02-1AA0-Z T40+F40+K07	130,700	3WJ1108-2AF52-1AA0-Z T40+F40+K07+R15	161,500
	1000		3WJ1110-2AF02-1AA0-Z T40+F40+K07	144,000	3WJ1110-2AF52-1AA0-Z T40+F40+K07+R15	171,000
	1250		3WJ1112-2AF02-1AA0-Z T40+F40+K07	157,500	3WJ1112-2AF52-1AA0-Z T40+F40+K07+R15	195,000
	1600		3WJ1116-2AF02-1AA0-Z T40+F40+K07	168,700	3WJ1116-2AF52-1AA0-Z T40+F40+K07+R15	203,400
II	2000	55	3WJ1220-2AF02-1AA0-Z T40+F40+K07	178,400	3WJ1220-2AF52-1AA0-Z T40+F40+K07+R15	217,950
	2500		3WJ1225-2AF02-1AA0-Z T40+F40+K07	221,000	3WJ1225-2AF52-1AA0-Z T40+F40+K07+R15	267,530
	3200		3WJ1232-2AF02-1AA0-Z T40+F40+K07	261,500	3WJ1232-2AF52-1AA0-Z T40+F40+K07+R15	326,290
	4000		3WJ1240-2AF01-1AA0-Z T40+F40+K07	369,900	3WJ1240-2AF51-1AA0-Z T40+F40+K07+R15	447,850

Note:

- Standard accessories for fixed-mounted ACB include door sealing frame IP41 (T40), trip unit cover (F40), and trip signal switch (K07).
- Standard accessories for withdrawable-mounted ACB include door sealing frame IP41 (T40), trip unit cover (F40), trip signal switch (K07), and position signal switch (1× connected, 1× test, 1× disconnected).
- Standard secondary disconnect terminal available is terminal X6. In case internal equipment is connected to terminal X5 or X7, the product shall be ordered additionally with detail below;
 - 3.1 for fixed-mounted ACB ; Base part (3WJ9111-0AB03) and Secondary disconnect terminals for fixed design (3WJ9111-0AB01)
 - 3.2 for withdrawable-mounted ACB ; Base part (3WJ9111-0AB03) and Sliding disconnect for withdrawable design (3WJ9111-0AB02)

Selection & ordering data

Accessories

Accessory	Product image	Frame size / A	Type / Description	Article no.	List price per PU (Per Unit)	Status
Trip alarm switch			1 NO Contact	3WJ9111-0AH02	2,100	
Auxiliary switch block ^{a)}			2NO+2NC, S1/S2	3WJ9111-0AG04	4,200	
			2NO+2NC, S6/S5	3WJ9111-0AG01	4,200	
			3NO+1NC, S60/S5	3WJ9111-0AG02	4,200	
			4NO+0NC, S60/S61	3WJ9111-0AG03	4,200	
Charging motor (M) ^{b)}			24V DC	3WJ9111-0AF01	16,000	
			110-127V AC / 110-125V DC	3WJ9111-0AF05	16,000	
			220-240V AC / 220-250V DC	3WJ9111-0AF06	16,000	
Closing Coil (CC)/ Shunt Trip (ST) - for continuous duty ^{b)}			24V DC	3WJ9111-0AD01	4,200	
			110-127V AC / 110-125V DC	3WJ9111-0AD05	4,200	
			220-240V AC / 220-250V DC	3WJ9111-0AD06	4,200	
Undervoltage Release (UVR): Instantaneous ($\leq 80\text{ms}$), Short delay ($\leq 200\text{ms}$) ^{b)}			24V DC	3WJ9111-0AE01	4,200	
			110...127V AC / 110...125V DC	3WJ9111-0AE05	4,200	
			220...240V AC / 220...250V DC	3WJ9111-0AE06	4,200	
			380...415V AC	3WJ9111-0AE07	4,200	
Undervoltage Release (UVR-t): with adjustable time delay of 0.2-3.2s ^{b)}			110...127V AC / 110...125V DC	3WJ9111-0AE15	8,500	
			220...240V AC / 220...250V DC	3WJ9111-0AE16	8,500	
			380...415V AC	3WJ9111-0AE17	8,500	
Locking provision against unauthorized closing secured open			Locking provision for Castell locks. The lock must be ordered at the manufacturer.	3WJ9111-0BA31	16,790	
			With CES lock	3WJ9111-0BA35	2,120	
Mutual mechanical interlock			Bowden cable - 2m	3WJ9111-0BB41	4,650	
			Bowden cable - 3m	3WJ9111-0BB42	5,920	
			Bowden cable - 4.5m	3WJ9111-0BB43	8,240	
			Bowden cable (2m) for fixed-mounted design is necessary for each circuit breaker. Spare-part for Z-option S55	3WJ9111-0BB21	16,370	
			Bowden cable (2m) for withdrawable design is necessary for each circuit breaker. Spare-part for Z-option R55.	3WJ9111-0BB22	16,370	
Key interlocking system			Against paralleling unsynchronized sources for 3 circuit breakers with CES lock. Interlocking in OFF position mounted to front cover 2 identical keys for 3 circuit breakers max. 2 circuit breakers closed	3WJ9111-0BA43	19,640	
Transparent cover for ETU			ETU350WJ	3WJ9111-0EM21	1,140	
			ETU360WJ			



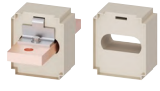
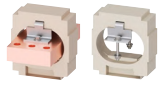





Note: The product images in this table list are for visual representation purposes only and may not reflect exact product sizes.

a) Auxiliary switch block use for 2nd auxiliary contact block shall be connected to terminal X5, Terminal X5 shall be ordered additionally






b) Charging motor (M), Closing Coil (CC), Shunt Trip (ST) and Undervoltage Release (UVR) duty shall be connected to terminal X7, Terminal X7 shall be ordered additionally

Selection & ordering data

Accessories

Accessory	Product image	Frame size / A	Type / Description	Article no.	List price per PU (Per Unit)	Status
Crank handle			For withdrawable circuit breakers	3WJ9111-0BC01	9,250	
Door sealing frame			IP41	3WJ9111-0AP01	2,430	
External current sensor for N-conductor		1	Busbar connection (Include copper bar)	3WJ9111-0AA31	20,000	
			Window type (Without copper bar)	3WJ9111-0AA21	10,500	
		2	Busbar connection (Include copper bar)	3WJ9111-0AA32	25,000	
			Window type (Without copper bar)	3WJ9111-0AA22	12,500	
Operation counter			5-digit operating cycles counter	3WJ9111-0AH04	12,000	
Ready-to-close			1 NO contact	3WJ9111-0AH01	3,500	
Sealing cap			For OFF push button	3WJ9111-0AP05	310	
Protective cover IP55			Not possible in combination with door sealing frame	3WJ9111-0AP03	14,260	
Position signaling switch			1x connected, 1x test, 1x disconnected	3WJ9111-0AH12	5,000	
			3x connected, 2x test, 1x disconnected	3WJ9111-0AH11	12,000	

Spares

Accessory	Product image	Frame size / A	Type / Description	Article no.	List price per PU (Per Unit)	Status
Base part			For secondary disconnect terminals	3WJ9111-0AB03	3,100	
Dummy block			For secondary disconnect terminals	3WJ9111-0AB04	3,000	
Sliding disconnect			Secondary contact modules only for withdrawable design	3WJ9111-0AB02	10,000	
Secondary disconnect terminals			For fixed design	3WJ9111-0AB01	4,900	
Conversion set		FS 1/3P	Converting fixed-mounted circuit breakers into withdrawable design	3WJ9111-0BC11	Price on Request	
		FS 1/4P		3WJ9111-0BC14	Price on Request	
		FS 2/3P		3WJ9111-0BC12*	Price on Request	
		FS 2/4P		3WJ9111-0BC15*	Price on Request	

Note: The product images in this table list are for visual representation purposes only and may not reflect exact product sizes.

*The given MLFBs are applicable for ACBs upto 3200A.

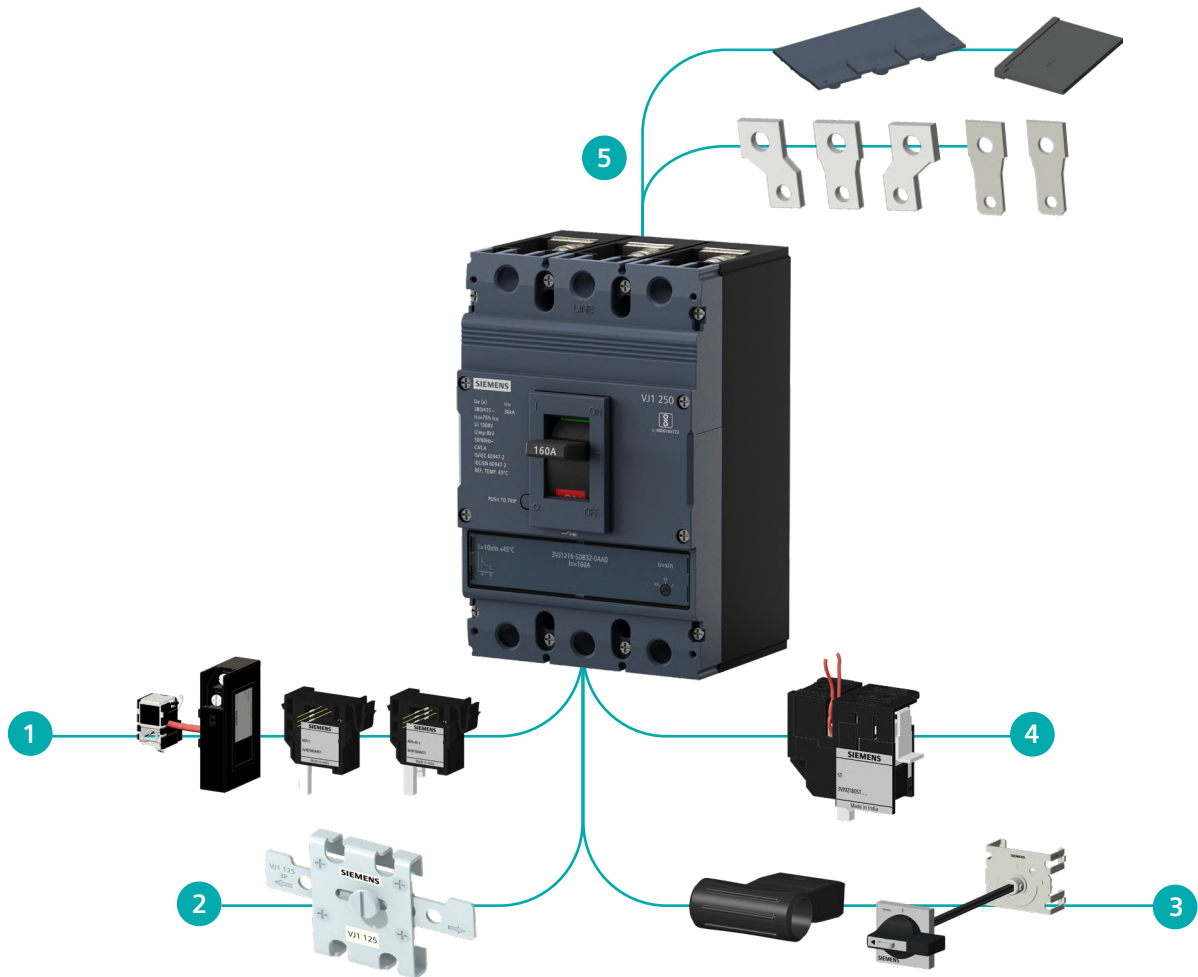


3VJ1 thermal magnetic molded case circuit breakers

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3VJ1 Overview

System overview







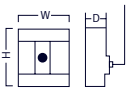


- 1 Internal accessories (Left side)
- 2 Locking devices
- 3 Door mounted rotary handle

- 4 Internal accessories (Right side)
- 5 Spreader phase barriers

Technical specifications

3VJ1 thermal magnetic molded case circuit breakers

																			
Type		3VJ10	3VJ10	3VJ11	3VJ12	3VJ13	3VJ14												
Number of poles		1	2/3/4	2/3/4	2/3/4	3/4	3/4												
Frame size		125X	125X	125	250	400	630												
Rated operational current I_n at 50°C ambient temperature		16-125	16-125	16-125	160-250	320-400	500-630												
Rated operational voltage Use 50/60Hz AC	V	240	415	415	415	415	415												
Insulation voltage	V	800	800	1000	1000	1000	1000												
Impulse voltage	kV	6	6	8	8	8	8												
Suitable for isolation		Yes																	
Utilization category, according to IEC60947-2		A																	
Breaking capacity																			
Short-circuit breaking capacities I_{cu} / I_{cs} rms value, according to IEC60947-2																			
I_{cu} @ AC 415* V-50/60Hz	kA	10	18	25	10	18	25	25	36	55	18	25	36	55	25	36	55	36	55
I_{cs} @ AC 415* V-50/60Hz	75%		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
I_{cs} @ AC 415* V-50/60Hz	100%	✓	✓		✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Trip units																			
Fixed Thermal Fixed Magnetic (1P/2P/3P/4P MCCBs)	FTFM							■											
Adjustable Thermal Fixed Magnetic (3P/4P MCCBs)	ATFM							■											
Neutral protection in 4P MCCB								100%											
Operating cycles																			
Mechanical		15000	15000	15000	15000	15000	10000												
Electrical @ 415* V AC		5000	5000	5000	5000	5000	4500												
Connection technology																			
Standard connection technology		Screw terminal																	
Overall dimensions																			
Width x Height x Depth		35 x 118 x 68	80 (2P/3P) / 103.5 (4P) x 126 x 68	92 (2P/3P) x 122 (4P) x 150 x 85	107.5 (2P/3P) x 142.5 (4P) x 166 x 85	150 (3P) / 198 (4P) x 260 x 110	150 (3P) / 198 (4P) x 260 x 110												

*240V for 1P MCCBs

■ Available

Selection & ordering data

3VJ1 molded case circuit breakers, Thermal magnetic trip unit,
Adjustable Thermal Fixed Magnetic (ATFM) Ics=100%Icu

Frame size	Breaking capacity (Icu) @415V AC, 50/60Hz	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status			
3VJ10 (VJ1 125X)	10kA	16	3 pole	3VJ1096-0DB32-0AAO	3,400				
		20		3VJ1002-0DB32-0AAO	3,400				
		25		3VJ1092-0DB32-0AAO	3,700				
		32		3VJ1003-0DB32-0AAO	3,700				
		40		3VJ1004-0DB32-0AAO	3,700				
		50		3VJ1005-0DB32-0AAO	3,700				
		63		3VJ1006-0DB32-0AAO	3,700				
		80		3VJ1008-0DB32-0AAO	3,700				
		100		3VJ1010-0DB32-0AAO	3,700				
		125		3VJ1012-0DB32-0AAO	5,700				
		16	4 pole	3VJ1096-0EB42-0AAO	4,410				
		20		3VJ1002-0EB42-0AAO	4,410				
		25		3VJ1092-0EB42-0AAO	4,410				
		32		3VJ1003-0EB42-0AAO	4,410				
		40		3VJ1004-0EB42-0AAO	4,410				
		50		3VJ1005-0EB42-0AAO	4,410				
		63		3VJ1006-0EB42-0AAO	4,820				
		80		3VJ1008-0EB42-0AAO	4,820				
		100		3VJ1010-0EB42-0AAO	4,820				
		125		3VJ1012-0EB42-0AAO	4,820				
3VJ11 (VJ1 125)	25kA	16	3 pole	3VJ1196-4DB32-0AAO	5,300				
		20		3VJ1102-4DB32-0AAO	5,300				
		25		3VJ1192-4DB32-0AAO	5,300				
		32		3VJ1103-4DB32-0AAO	5,300				
		40		3VJ1104-4DB32-0AAO	5,300				
		50		3VJ1105-4DB32-0AAO	5,300				
		63		3VJ1106-4DB32-0AAO	5,300				
		80		3VJ1108-4DB32-0AAO	5,300				
		100		3VJ1110-4DB32-0AAO	5,300				
		125		3VJ1112-4DB32-0AAO	7,000				
		3VJ12 (VJ1 250)			160		3VJ1216-4DB32-0AAO	7,000	
					200		3VJ1220-4DB32-0AAO	8,500	
250			3VJ1225-4DB32-0AAO		8,500				
3VJ11 (VJ1 125)	36kA	16	3 pole	3VJ1196-6DB32-0AAO	5,750				
		20		3VJ1102-6DB32-0AAO	5,750				
		25		3VJ1192-6DB32-0AAO	5,750				
		32		3VJ1103-6DB32-0AAO	5,750				
		40		3VJ1104-6DB32-0AAO	5,750				
		50		3VJ1105-6DB32-0AAO	5,750				
		63		3VJ1106-6DB32-0AAO	5,750				
		80		3VJ1108-6DB32-0AAO	5,750				
		100		3VJ1110-6DB32-0AAO	5,750				
		125		3VJ1112-6DB32-0AAO	7,800				
		3VJ12 (VJ1 250)			160		3VJ1216-6DB32-0AAO	7,800	
					200		3VJ1220-6DB32-0AAO	9,500	
					250		3VJ1225-6DB32-0AAO	9,500	
		3VJ13 (VJ1 400)			320		3VJ1332-6DB32-0AAO	19,000	
		400		3VJ1340-6DB32-0AAO	19,000				
3VJ14 (VJ1 630)		500		3VJ1450-6DB32-0AAO	25,000				
		630		3VJ1463-6DB32-0AAO	25,000				

Note:

Phase barriers and front barriers are included in the standard MCCB packing.

For 3VJ10..-0..... only phase barriers are supplied as a standard offering along with MCCB.

Selection & ordering data

3VJ1 molded case circuit breakers, Thermal magnetic trip unit,
Adjustable Thermal Fixed Magnetic (ATFM) Ics=100%Icu

Frame size	Breaking capacity (Icu) @415V AC, 50/60Hz	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
3VJ11 (VJ1 125)	25kA	16	4 pole	3VJ1196-4EB42-0AA0	7,030	
		20		3VJ1102-4EB42-0AA0	7,030	
		25		3VJ1192-4EB42-0AA0	7,030	
		32		3VJ1103-4EB42-0AA0	7,030	
		40		3VJ1104-4EB42-0AA0	7,030	
		50		3VJ1105-4EB42-0AA0	7,030	
		63		3VJ1106-4EB42-0AA0	7,030	
		80		3VJ1108-4EB42-0AA0	7,030	
		100		3VJ1110-4EB42-0AA0	7,030	
		125		3VJ1112-4EB42-0AA0	10,000	
		3VJ12 (VJ1 250)			160	
200			3VJ1220-4EB42-0AA0		11,500	
250			3VJ1225-4EB42-0AA0		11,500	
3VJ11 (VJ1 125)	36kA	16	4 pole	3VJ1196-6EB42-0AA0	7,700	
		20		3VJ1102-6EB42-0AA0	7,700	
		25		3VJ1192-6EB42-0AA0	7,700	
		32		3VJ1103-6EB42-0AA0	7,700	
		40		3VJ1104-6EB42-0AA0	7,700	
		50		3VJ1105-6EB42-0AA0	7,700	
		63		3VJ1106-6EB42-0AA0	7,700	
		80		3VJ1108-6EB42-0AA0	7,700	
		100		3VJ1110-6EB42-0AA0	7,700	
		125		3VJ1112-6EB42-0AA0	11,440	
		3VJ12 (VJ1 250)			160	
200			3VJ1220-6EB42-0AA0		12,500	
250			3VJ1225-6EB42-0AA0		12,500	
3VJ13 (VJ1 400)		320		3VJ1332-6EB42-0AA0	25,000	
3VJ14 (VJ1 630)		400		3VJ1340-6EB42-0AA0	25,000	
		500		3VJ1450-6EB42-0AA0	32,000	
3VJ12	55kA	630	3 pole	3VJ1463-6EB42-0AA0	35,000	
		160		3VJ1216-8DB32-0AA0	8,000	
3VJ13		200		3VJ1220-8DB32-0AA0	11,000	
		250		3VJ1225-8DB32-0AA0	11,000	
		320		3VJ1332-8DB32-0AA0	23,000	
3VJ14		400		3VJ1340-8DB32-0AA0	23,000	
		500		3VJ1450-8DB32-0AA0	30,000	
3VJ12	55kA	630	4 pole	3VJ1463-8DB32-0AA0	30,000	
		160		3VJ1216-8EB42-0AA0	12,500	
3VJ13		200		3VJ1220-8EB42-0AA0	13,800	
		250		3VJ1225-8EB42-0AA0	13,800	
		320		3VJ1332-8EB42-0AA0	30,000	
3VJ14		400		3VJ1340-8EB42-0AA0	30,000	
		500		3VJ1450-8EB42-0AA0	40,000	
3VJ12	55kA	630	4 pole	3VJ1463-8EB42-0AA0	43,000	

Note:

Phase barriers and front barriers are included in the standard MCCB packing.

For 3VJ10..-0..... only phase barriers are supplied as a standard offering along with MCCB.

Selection & ordering data

3VJ1 molded case circuit breakers, Thermal magnetic trip unit,
Fixed Thermal Fixed Magnetic (FTFM) $I_{cs}=75\%I_{cu}$

Frame size	Breaking capacity (Icu) @240V AC, 50/60Hz	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status	
3VJ10 (VJ1 125X)	25kA	16	1 pole	3VJ1096-3DA12-0AA0	2,460		
		20		3VJ1002-3DA12-0AA0	2,460		
		25		3VJ1092-3DA12-0AA0	2,460		
		32		3VJ1003-3DA12-0AA0	2,460		
		40		3VJ1004-3DA12-0AA0	2,460		
		50		3VJ1005-3DA12-0AA0	2,460		
		63		3VJ1006-3DA12-0AA0	2,460		
		80		3VJ1008-3DA12-0AA0	2,460		
		100		3VJ1010-3DA12-0AA0	2,460		
		125		3VJ1012-3DA12-0AA0	2,460		
			16	2 pole	3VJ1096-3DA22-0AA0	3,180	
			20		3VJ1002-3DA22-0AA0	3,180	
			25		3VJ1092-3DA22-0AA0	3,180	
			32		3VJ1003-3DA22-0AA0	3,180	
			40		3VJ1004-3DA22-0AA0	3,180	
			50		3VJ1005-3DA22-0AA0	3,180	
			63		3VJ1006-3DA22-0AA0	3,180	
			80		3VJ1008-3DA22-0AA0	3,180	
			100		3VJ1010-3DA22-0AA0	3,180	
			125		3VJ1012-3DA22-0AA0	3,180	

Note:

Phase barriers and front barriers are included in the standard MCCB packing.

For 3VJ10..-0....-.... only phase barriers are supplied as a standard offering along with MCCB.

Selection & ordering data

3VJ1 molded case circuit breakers, Thermal magnetic trip unit
Fixed Thermal Fixed Magnetic (FTFM) $I_{cs}=75\%I_{cu}$

Frame size	Breaking capacity (Icu) @415V AC, 50/60Hz	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status		
3VJ10 (VJ1 125)	25kA	16	3 pole	3VJ1096-3DA32-0AA0	3,850			
		20		3VJ1002-3DA32-0AA0	3,850			
		25		3VJ1092-3DA32-0AA0	3,850			
		32		3VJ1003-3DA32-0AA0	3,850			
		40		3VJ1004-3DA32-0AA0	3,850			
		50		3VJ1005-3DA32-0AA0	3,850			
		63		3VJ1006-3DA32-0AA0	3,850			
		80		3VJ1008-3DA32-0AA0	3,850			
		100		3VJ1010-3DA32-0AA0	3,850			
		125		3VJ1012-3DA32-0AA0	5,000			
3VJ12 (VJ1 250)	25kA	160		3VJ1216-3DA32-0AA0	6,000			
		200		3VJ1220-3DA32-0AA0	7,500			
		250		3VJ1225-3DA32-0AA0	7,500			
3VJ11 (VJ1 125)	36kA	16		3 pole	3VJ1196-5DA32-0AA0	4,400		
		20			3VJ1102-5DA32-0AA0	4,400		
		25			3VJ1192-5DA32-0AA0	4,400		
		32			3VJ1103-5DA32-0AA0	4,400		
		40			3VJ1104-5DA32-0AA0	4,400		
		50			3VJ1105-5DA32-0AA0	4,400		
		63			3VJ1106-5DA32-0AA0	4,400		
		80	3VJ1108-5DA32-0AA0		4,400			
		100	3VJ1110-5DA32-0AA0		4,400			
		125	3VJ1112-5DA32-0AA0		7,100			
3VJ12 (VJ1 250)	36kA	160	3VJ1216-5DA32-0AA0		7,100			
		200	3VJ1220-5DA32-0AA0		9,200			
		250	3VJ1225-5DA32-0AA0		9,500			
3VJ10 (VJ1 125)	25kA	16	4 pole		3VJ1096-3EA42-0AA0	6,260		
		20			3VJ1002-3EA42-0AA0	6,260		
		25			3VJ1092-3EA42-0AA0	6,260		
		32			3VJ1003-3EA42-0AA0	6,260		
		40			3VJ1004-3EA42-0AA0	6,260		
		50			3VJ1005-3EA42-0AA0	6,260		
		63			3VJ1006-3EA42-0AA0	6,260		
		80		3VJ1008-3EA42-0AA0	6,260			
		100		3VJ1010-3EA42-0AA0	6,260			
		125		3VJ1012-3EA42-0AA0	9,740			
		3VJ12 (VJ1 250)		25kA	160	3VJ1216-3EA42-0AA0	9,740	
					200	3VJ1220-3EA42-0AA0	9,740	
250	3VJ1225-3EA42-0AA0				9,740			

Note:

Phase barriers and front barriers are included in the standard MCCB packing.

For 3VJ10..0..... only phase barriers are supplied as a standard offering along with MCCB.

Selection & ordering data

3VJ1 molded case circuit breakers, Thermal magnetic trip unit
Fixed Thermal Fixed Magnetic (FTFM) $I_{cs}=75\%I_{cu}$

Frame size	Breaking capacity (Icu) @415V AC, 50/60Hz	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
3VJ11 (VJ1 125)	36kA	16	4 pole	3VJ1196-5EA42-0AA0	7,030	
		20		3VJ1102-5EA42-0AA0	7,030	
		25		3VJ1192-5EA42-0AA0	7,030	
		32		3VJ1103-5EA42-0AA0	7,030	
		40		3VJ1104-5EA42-0AA0	7,030	
		50		3VJ1105-5EA42-0AA0	7,030	
		63		3VJ1106-5EA42-0AA0	7,030	
		80		3VJ1108-5EA42-0AA0	7,030	
		100		3VJ1110-5EA42-0AA0	7,030	
		125		3VJ1112-5EA42-0AA0	10,770	
3VJ12 (VJ1 250)	36kA	160		3VJ1216-5EA42-0AA0	10,770	
		200		3VJ1220-5EA42-0AA0	11,790	
		250		3VJ1225-5EA42-0AA0	11,790	

3VJ1 thermal magnetic molded case circuit breakers, Thermal magnetic trip unit, Adjustable Thermal Fixed Magnetic (ATFM) $I_{cs}=75\%I_{cu}$









Frame size	Breaking capacity (Icu) @415V AC, 50/60Hz	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
3VJ11 (VJ1 125)	55kA	16	3 pole	3VJ1196-7DB32-0AA0	6,110	
		20		3VJ1102-7DB32-0AA0	6,110	
		25		3VJ1192-7DB32-0AA0	6,110	
		32		3VJ1103-7DB32-0AA0	6,110	
		40		3VJ1104-7DB32-0AA0	6,110	
		50		3VJ1105-7DB32-0AA0	6,110	
		63		3VJ1106-7DB32-0AA0	6,110	
		80		3VJ1108-7DB32-0AA0	6,110	
		100		3VJ1110-7DB32-0AA0	6,110	
		125		3VJ1112-7DB32-0AA0	9,760	
3VJ12 (VJ1 250)	55kA	160		3VJ1216-7DB32-0AA0	10,380	
		200		3VJ1220-7DB32-0AA0	10,990	
		250		3VJ1225-7DB32-0AA0	10,990	
3VJ11 (VJ1 125)	55kA	16	4 pole	3VJ1196-7EB42-0AA0	8,000	
		20		3VJ1102-7EB42-0AA0	8,000	
		25		3VJ1192-7EB42-0AA0	8,000	
		32		3VJ1103-7EB42-0AA0	8,000	
		40		3VJ1104-7EB42-0AA0	8,000	
		50		3VJ1105-7EB42-0AA0	8,000	
		63		3VJ1106-7EB42-0AA0	8,000	
		80		3VJ1108-7EB42-0AA0	8,000	
3VJ12 (VJ1 250)	55kA	100		3VJ1110-7EB42-0AA0	8,000	
		125		3VJ1112-7EB42-0AA0	12,300	
		160		3VJ1216-7EB42-0AA0	12,300	
		200		3VJ1220-7EB42-0AA0	12,300	
3VJ12 (VJ1 250)	55kA	250		3VJ1225-7EB42-0AA0	12,300	

Note:

Phase barriers and front barriers are included in the standard MCCB packing.

For 3VJ10.-0..... only phase barriers are supplied as a standard offering along with MCCB.

Selection & ordering data

Accessory	Product image	Accessory compartment/ coil voltage	Frame size				
			3VJ10 (VJ1 125X)	3VJ11 (VJ1 125)	3VJ12 (VJ1 250)	3VJ13 (VJ1 400)	3VJ14 (VJ1 630)
Auxiliary switches		Left	3VJ9018-0AN11	3VJ9218-0AN11		3VJ9417-0AN11	
		Unit Price (THB)	1,570	1,570		2,220	
Alarm switches		Left	3VJ9018-0AA11	3VJ9118-0AA11	3VJ9218-0AA11	3VJ9417-0AA11	
		Unit Price (THB)	1,600	1,600	1,600	2,180	
Auxiliary + Alarm switches		Left	3VJ9018-0AD11	3VJ9118-0AD11	3VJ9218-0AD11	3VJ9417-0AD11	
		Unit Price (THB)	2,030	2,260	2,570	2,770	
Shunt trip (right)		220V AC	3VJ9018-0ST36	3VJ9218-0ST36		3VJ9417-0ST36	
		Unit Price (THB)	2,700	3,050		4,460	
Undervoltage release (left)		220V AC	-	3VJ9218-0UV36		3VJ9417-0UV36	
		Unit Price (THB)		4,960		5,470	
Extended door mounted rotary operator (including 8UC handle)*			3VJ9018-0HD11	3VJ9118-0HD11	3VJ9218-0HD11	3VJ9417-0HD11	
		Unit Price (THB)	2,790	2,790	2,980	5,630	
Spreader links^			3VJ9013-0ED00 (3P)	3VJ9113-0ED00 (3P)	3VJ9213-0ED00 (3P)	3VJ9313-0ED00	3VJ9413-0ED00
		Unit Price (THB)	2,200	2,200	2,430	3,910	4,090
			3VJ9014-0ED00 (4P)	3VJ9114-0ED00 (4P)	3VJ9214-0ED00 (4P)	3VJ9314-0ED00	3VJ9414-0ED00
Unit Price (THB)	2,850	2,850	3,160	5,110	5,300		
MIL (MECHANICAL INTERLOCKING)			-	3VJ9116-0VM10 (2P, 3P)	3VJ9216-0VM10 (2P, 3P)	3VJ9313-0VM10 (3P)	
		Unit Price (THB)		3,640	3,870	4,380	
			-	3VJ9114-0VM10 (4P)	3VJ9214-0VM10 (4P)	3VJ9314-0VM10 (4P)	
Unit Price (THB)		3,640	3,870	4,380			
Padlocking Device			-	3VJ9118-0LM10	3VJ9218-0LM10	3VJ9317-0LM10	
		Unit Price (THB)	-	1,200	1,200	1,500	

Note:

Internal accessories are available only for 2-pole, 3-pole and 4-pole MCCBs.

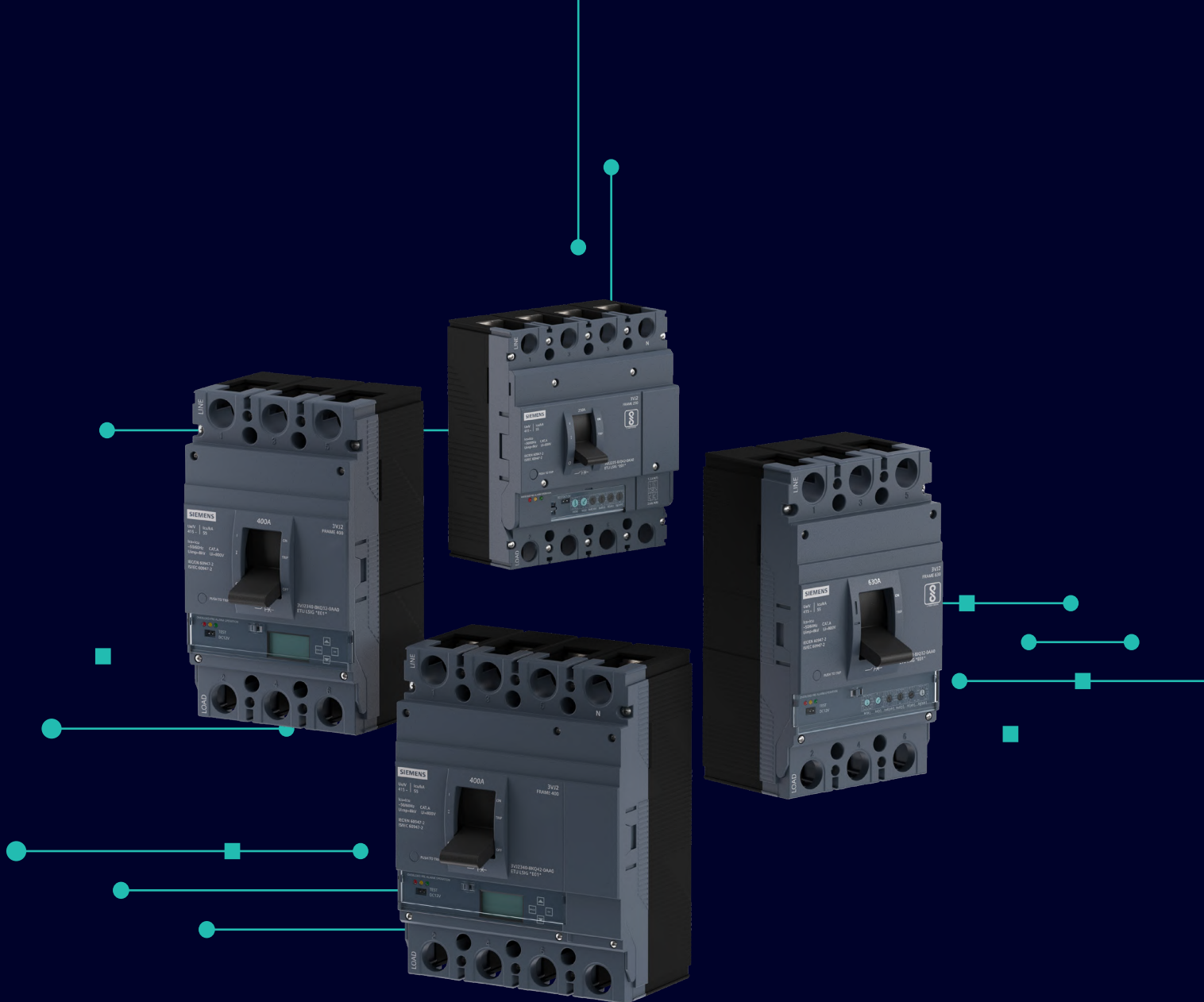
3VJ9218-0ST.. shunt releases can be used with 3VJ11 (frame VJ1 125) and 3VJ12 (frame VJ1 250) only.

^ Spreader link 1 set = 2 nos. links in case of 2-pole; and 3 nos. links in case of 3-pole; and 4 nos. links in case of 4-pole.

Extended terminals 1 set = 2 nos. links.

- NA

Toggle handle extension is included in the standard packing of 3VJ13 and 3VJ14 (VJ1 400 and 630) MCCB.



3VJ2 microprocessor based molded case circuit breakers

SINOPLUS ความเรียบง่ายที่ทรงพลัง

Technical specifications

3VJ2 microprocessor based molded case circuit breakers



Type		3VJ22	3VJ23	3VJ24
Number of poles		3/4	3/4	3/4
Frame size		250	400	630
Rated operational current (A)	In	160A, 200A, 250A	400A	630A
Rated operational voltage (V AC)	Ue	415		
Rated frequency (Hz)		50/60		
Rated insulation voltage (V)	Ui	800		
Rated impulse withstand voltage (kV)	Uimp	8		
Suitable for isolation		Yes		
Utilization category, according to IEC 60947-2		A		
Certificate/Standard (RoHS)		IEC 60947-1, IEC 60947-2, EEQCO Scheme-X		
Breaking capacity (kA rms)				
Rated ultimate short circuit breaking capacity (kA) at AC 415V AC - 50/60Hz	Icu	55	36*, 55	36*, 55
Rated service short circuit breaking capacity (kA) at AC 415V AC - 50/60Hz	Ics as %Icu	100%	100%	100%
Service life (Make-Break operations)				
Mechanical		10,000	8500	8500
Electrical @ 415V AC		5000	2000	2000
Overall dimensions				
Width x Height x Depth (mm)	3P	107 x 165 x 79.5	150 x 257 x 112.5	150 x 257 x 112.5
	4P	142 x 165 x 79.5	198 x 257 x 112.5	198 x 257 x 112.5

*With line load reversability

Technical specifications




3VJ2 microprocessor based molded case circuit breakers

			
Protection	3VJ22	3VJ23	3VJ24
Release type	ETU	ETU	ETU
ETU type	Knob / LCD Display	Knob / LCD Display	Knob / LCD Display
Knob type ETU protection parameters settings	LSI (3P) Ir(A) : 0.4 - 1In tr(s) : OFF / 12 / 60 / 100 / 150s lsd(xlr) : 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10lr tsd(s) : OFF / 0.06 / 0.1 / 0.2 / 0.3 / 0.4 / 0.5 / 1.0s li(xlr) : OFF / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12lr lp(xlr) : 0.7 / 0.75 / 0.8 / 0.85 / 0.9 / 0.95 / 1.0lr	LSI (3P) Ir(A) : 0.4 - 1In tr(s) : OFF / 12 / 60 / 80s lsd(xlr) : 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10lr tsd(s) : OFF / 0.06 / 0.1 / 0.2 / 0.3 / 0.4 / 0.5 / 1.0s li(xlr) : OFF / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12lr lp(xlr) : 0.7 / 0.75 / 0.8 / 0.85 / 0.9 / 0.95 / 1.0lr	LSI (3P) Ir(A) : 0.4 - 1In tr(s) : OFF / 12 / 60 / 80s lsd(xlr) : 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 tsd(s) : OFF / 0.06 / 0.1 / 0.2 / 0.3 / 0.4 / 0.5 / 1.0s li(xlr) : OFF / 4 / 5 / 6 / 7 / 8 / 9lr lp(xlr) : 0.7 / 0.75 / 0.8 / 0.85 / 0.9 / 0.95 / 1.0lr
	LSIG (3P/4P) Ir(A) : 0.4 - 1In tr(s) : OFF / 12 / 60 / 100 / 150s lsd(xlr) : 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10lr tsd(s) : OFF / 0.06 / 0.1 / 0.2 / 0.3 / 0.4 / 0.5 / 1.0s li(xlr) : OFF / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12lr lg(xln) : OFF / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 / 1.0In tg(s) : 0.4s	LSIG (3P/4P) Ir(A) : 0.4 - 1In tr(s) : OFF / 12 / 60 / 80s lsd(xlr) : 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10lr tsd(s) : OFF / 0.06 / 0.1 / 0.2 / 0.3 / 0.4 / 0.5 / 1.0s li(xlr) : OFF / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12lr lg(xln) : OFF / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 / 1.0In tg(s) : 0.4s	LSIG (3P/4P) Ir(A) : 0.4 - 1In tr(s) : OFF / 12 / 60 / 80s lsd(xlr) : 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9lr tsd(s) : OFF / 0.06 / 0.1 / 0.2 / 0.3 / 0.4 / 0.5 / 1.0s li(xlr) : OFF / 4 / 5 / 6 / 7 / 8 / 9lr lg(xln) : OFF / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 / 1.0In tg(s) : 0.4s

Note: In case of LSIG (3P/4P): Ip=0.9xlr (Fixed)

Technical specifications

3VJ2 microprocessor based molded case circuit breakers

			
Protection	3VJ22	3VJ23	3VJ24
Display type ETU protection parameters settings	<p>LSI (3P) Ir(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)</p> <p>tr(s) : 12s - 150s (continuously adjustable with step length 1s+OFF)</p> <p>Isd(A) : 2 - 10xIr (continuously adjustable with step length 1A)</p> <p>tsd(s) : 0.06s - 1.0s (continuously adjustable with step length 0.01s+OFF)</p> <p>li(A) : 4 - 12xlr (continuously adjustable with step length 1A)+OFF</p> <p>Ip(A) : 0.7 - 1.0xlr (continuously adjustable with step length 1A)</p>	<p>LSI (3P) Ir(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)</p> <p>tr(s) : 12s - 80s (continuously adjustable with step length 1s+OFF)</p> <p>Isd(A) : 2 - 10xlr (continuously adjustable with step length 1A)</p> <p>tsd(s) : 0.06s - 1.0s (continuously adjustable with step length 0.01s+OFF)</p> <p>li(A) : 4 - 12xlr (continuously adjustable with step length 1A)+OFF</p> <p>Ip(A) : 0.7 - 1.0xlr (continuously adjustable with step length 1A)</p>	<p>LSI (3P) Ir(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)</p> <p>tr(s) : 12s - 80s (continuously adjustable with step length 1s+OFF)</p> <p>Isd(A) : 2 - 9xlr (continuously adjustable with step length 1A)</p> <p>tsd(s) : 0.06s - 1.0s (continuously adjustable with step length 0.01s+OFF)</p> <p>li(A) : 4 - 9xlr (continuously adjustable with step length 1A)+OFF</p> <p>Ip(A) : 0.7 - 1.0xlr (continuously adjustable with step length 1A)</p>
	<p>LSIG (3P/4P) Ir(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)</p> <p>tr(s) : 12s - 150s (continuously adjustable with step length 1s+OFF)</p> <p>Isd(A) : 2 - 10xlr (continuously adjustable with step length 1A)</p> <p>tsd(s) : 0.06s - 1.0s (continuously adjustable with step length 0.01s+OFF)</p> <p>li(A) : 4 - 12xlr (continuously adjustable with step length 1A)+OFF</p> <p>Ig(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)+OFF</p> <p>tg(s) : 0.4s - 1s (continuously adjustable with step length 0.1s)</p>	<p>LSIG (3P/4P) Ir(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)</p> <p>tr(s) : 12s - 80s (continuously adjustable with step length 1s+OFF)</p> <p>Isd(A) : 2 - 10xlr (continuously adjustable with step length 1A)</p> <p>tsd(s) : 0.06s - 1.0s (continuously adjustable with step length 0.01s+OFF)</p> <p>li(A) : 4 - 12xlr (continuously adjustable with step length 1A)+OFF</p> <p>Ig(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)+OFF</p> <p>tg(s) : 0.4s - 1s (continuously adjustable with step length 0.1s)</p>	<p>LSIG (3P/4P) Ir(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)</p> <p>tr(s) : 12s - 80s (continuously adjustable with step length 1s+OFF)</p> <p>Isd(A) : 2 - 9xlr (continuously adjustable with step length 1A)</p> <p>tsd(s) : 0.06s - 1.0s (continuously adjustable with step length 0.01s+OFF)</p> <p>li(A) : 4 - 9xlr (continuously adjustable with step length 1A)+OFF</p> <p>Ig(A) : 0.4 - 1.0xIn (continuously adjustable with step length 1A)+OFF</p> <p>tg(s) : 0.4s - 1s (continuously adjustable with step length 0.1s)</p>

Selection & ordering data

3VJ2 (ETU) molded case circuit breakers
 Microprocessor trip unit with knob - LSI Protection,
 $I_{cs}=100\%I_{cu}$, 415V AC, 50Hz

Frame size	Breaking capacity (Icu) @ 415V AC	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
250	55kA	160	3 pole	3VJ2216-8JP32-0AA0	31,700	
250		200		3VJ2220-8JP32-0AA0	31,700	
250		250		3VJ2225-8JP32-0AA0	31,700	
400		400		3VJ2340-8JP32-0AA0	42,500	
630		630		3VJ2463-8JP32-0AA0	56,000	
400	36kA	400		3VJ2340-6JP32-0AA0	42,500	
630		630		3VJ2463-6JP32-0AA0	56,000	

Microprocessor trip unit with knob - LSI Protection,
 $I_{cs}=100\%I_{cu}$, 415 AC, 50Hz

Frame size	Breaking capacity (Icu) @ 415V AC	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
250	55kA	160	4 pole	3VJ2216-8JQ42-0AA0	58,000	
250		200		3VJ2220-8JQ42-0AA0	58,000	
250		250		3VJ2225-8JQ42-0AA0	58,000	
400		400		3VJ2340-8JQ42-0AA0	70,000	
630		630		3VJ2463-8JQ42-0AA0	89,000	
400	36kA	400		3VJ2340-6JQ42-0AA0	70,000	
630		630		3VJ2463-6JQ42-0AA0	89,000	

Selection & ordering data

3VJ2 (ETU) molded case circuit breakers
 Microprocessor trip unit with display - LSI Protection,
 $I_{cs}=100\%I_{cu}$, 415V AC, 50Hz

Frame size	Breaking capacity (Icu) @ 415V AC	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
250	55kA	160	3 pole	3VJ2216-8KP32-0AA0	Price on Request	
250		200		3VJ2220-8KP32-0AA0	Price on Request	
250		250		3VJ2225-8KP32-0AA0	Price on Request	
400		400		3VJ2340-8KP32-0AA0	Price on Request	
630		630		3VJ2463-8KP32-0AA0	Price on Request	
400	36kA	400		3VJ2340-6KP32-0AA0	Price on Request	
630		630		3VJ2463-6KP32-0AA0	Price on Request	

Microprocessor trip unit with display - LSI Protection,
 $I_{cs}=100\%I_{cu}$, 415 AC, 50Hz

Frame size	Breaking capacity (Icu) @ 415V AC	Rated current In (A)	No. of poles	Type no.	List price per PU (Per Unit)	Status
250	55kA	160	4 pole	3VJ2216-8KQ42-0AA0	Price on Request	
250		200		3VJ2220-8KQ42-0AA0	Price on Request	
250		250		3VJ2225-8KQ42-0AA0	Price on Request	
400		400		3VJ2340-8KQ42-0AA0	Price on Request	
630		630		3VJ2463-8KQ42-0AA0	Price on Request	
400	36kA	400		3VJ2340-6KQ42-0AA0	Price on Request	
630		630		3VJ2463-6KQ42-0AA0	Price on Request	

Selection & ordering data

3VJ2 microprocessor based molded case circuit breakers





Accessories

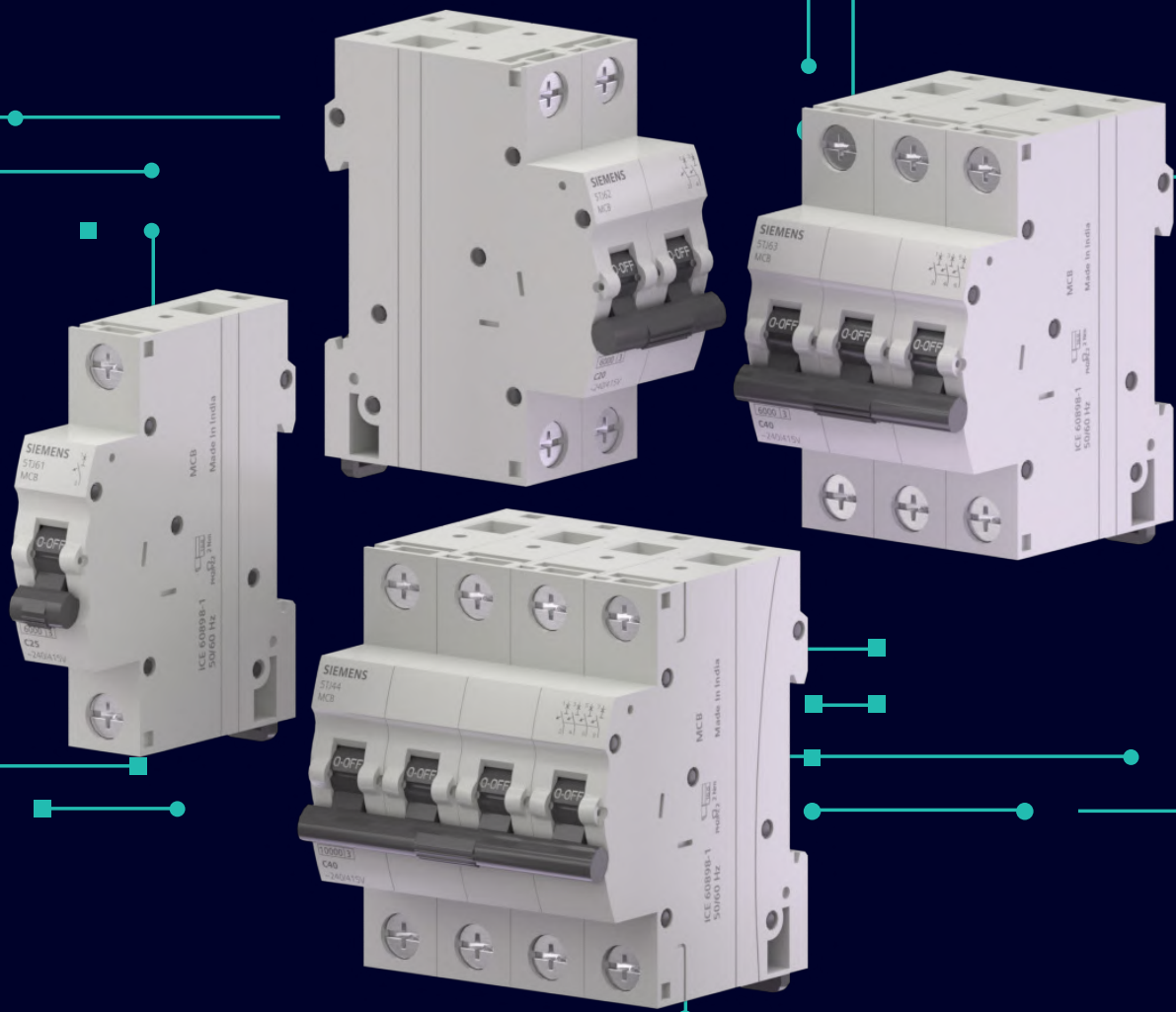
Accessory	Product image	Accessory compartment/ coil voltage	Frame size		
			250	400	630
Auxiliary switches (On/Off)		Left	3VJ9228-0AN11	3VJ9427-0AN11	
		Unit Price (THB)	1,200	1,200	
		Right	3VJ9228-0AN21	3VJ9427-0AN21	
		Unit Price (THB)	1,200	1,200	
Alarm switch		Left	3VJ9228-0AA11	3VJ9427-0AA11	
		Unit Price (THB)	1,200	1,200	
		Right	3VJ9228-0AA21	3VJ9427-0AA21	
		Unit Price (THB)	1,200	1,200	
Aux + Alarm switch		Left	3VJ9228-0AD11	3VJ9427-0AD11	
		Unit Price (THB)	1,500	2,000	
		Right	3VJ9228-0AD21	3VJ9427-0AD21	
		Unit Price (THB)	1,500	2,000	
Shunt trip		24V DC Left	3VJ9228-0ST11	3VJ9428-0ST11	
		Unit Price (THB)	2,000	2,800	
		24V DC Right	3VJ9228-0ST21	3VJ9428-0ST21	
		Unit Price (THB)	2,000	2,800	
		230V AC Left	3VJ9228-0ST36	3VJ9428-0ST36	
		Unit Price (THB)	2,000	2,800	
		230V AC Right	3VJ9228-0ST46	3VJ9428-0ST46	
		Unit Price (THB)	2,000	2,800	
		415V AC Left	3VJ9228-0ST37	3VJ9428-0ST37	
		Unit Price (THB)	2,000	2,800	
		415V AC Right	3VJ9228-0ST47	3VJ9428-0ST47	
		Unit Price (THB)	2,000	2,800	

Selection & ordering data

3VJ2 microprocessor based molded case circuit breakers

Accessories

Accessory	Product image	Accessory compartment/ coil voltage	Frame size		
			250	400	630
Extended door mounted rotary operator		-	3VJ9228-0HD11	3VJ9427-0HD11	
		Unit Price (THB)	Price on Request	Price on Request	
Under voltage release		220V DC Left	-	3VJ9428-0UV16	
		Unit Price (THB)		3,800	
		220V DC Right	3VJ9228-0UV26	-	
		Unit Price (THB)	3,800		
		230V AC Left	-	3VJ9428-0UV36	
		Unit Price (THB)		3,800	
		230V AC Right	3VJ9228-0UV46	-	
		Unit Price (THB)	3,800		
		415V Left		3VJ9428-0UV37	
		Unit Price (THB)		3,800	
		415V Right	3VJ9228-0UV47	-	
		Unit Price (THB)	3,800		
Spreaders - 3 pole		3 pole (3 links)	3VJ9223-0ED00	3VJ9323-0ED00	3VJ9423-0ED00
		Unit Price (THB)	3,000	3,000	3,000
Spreaders - 4 pole		4 pole (4 links)	3VJ9224-0ED00	3VJ9324-0ED00	3VJ9424-0ED00
		Unit Price (THB)	4,000	4,000	4,000




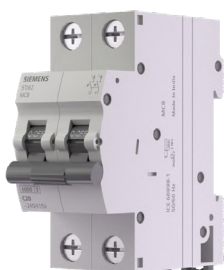


5TJ miniature circuit breakers

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Selection & ordering data

5TJ miniature circuit breakers (6kA)





Characteristic: C curve

Product	In (A)	No. of poles	Characteristics C Article no.	Standard packaging No. of pieces	List price per PU (Per Unit)	Status
240/415V AC						
	6	1 pole	5TJ6106-7	12	180	
	10		5TJ6110-7	12	180	
	16		5TJ6116-7	12	180	
	20		5TJ6120-7	12	180	
	25		5TJ6125-7	12	180	
	32		5TJ6132-7	12	180	
	40		5TJ6140-7	12	180	
	50		5TJ6150-7	12	530	
	63		5TJ6163-7	12	530	
415V AC						
	6	2 pole	5TJ6206-7	6	490	
	10		5TJ6210-7	6	490	
	16		5TJ6216-7	6	490	
	20		5TJ6220-7	6	490	
	25		5TJ6225-7	6	490	
	32		5TJ6232-7	6	490	
	40		5TJ6240-7	6	490	
	50		5TJ6250-7	6	1,000	
	63		5TJ6263-7	6	1,000	
415V AC						
	6	3 pole	5TJ6306-7	4	1,020	
	10		5TJ6310-7	4	1,020	
	16		5TJ6316-7	4	1,020	
	20		5TJ6320-7	4	1,020	
	25		5TJ6325-7	4	1,020	
	32		5TJ6332-7	4	1,020	
	40		5TJ6340-7	4	1,020	
	50		5TJ6350-7	4	1,450	
	63		5TJ6363-7	4	1,450	
415V AC						
	6	4 pole	5TJ6406-7	3	1,440	
	10		5TJ6410-7	3	1,440	
	16		5TJ6416-7	3	1,440	
	20		5TJ6420-7	3	1,440	
	25		5TJ6425-7	3	1,440	
	32		5TJ6432-7	3	1,440	
	40		5TJ6440-7	3	1,440	
	50		5TJ6450-7	3	1,540	
	63		5TJ6463-7	3	1,540	

Selection & ordering data

5TJ miniature circuit breakers (10kA)

Characteristic: C curve

Product	In (A)	No. of poles	Characteristics C Article no.	Standard packaging No. of pieces	List price per PU (Per Unit)	Status
240/415V AC						
	6	1 pole	5TJ4106-7	12	580	
	10		5TJ4110-7	12	580	
	16		5TJ4116-7	12	580	
	20		5TJ4120-7	12	580	
	25		5TJ4125-7	12	580	
	32		5TJ4132-7	12	580	
	40		5TJ4140-7	12	900	
	50		5TJ4150-7	12	900	
	63		5TJ4163-7	12	900	
415V AC						
	6	2 pole	5TJ4206-7	6	1,050	
	10		5TJ4210-7	6	1,050	
	16		5TJ4216-7	6	1,050	
	20		5TJ4220-7	6	1,050	
	25		5TJ4225-7	6	1,050	
	32		5TJ4232-7	6	1,050	
	40		5TJ4240-7	6	1,610	
	50		5TJ4250-7	6	1,610	
	63		5TJ4263-7	6	1,610	
415V AC						
	6	3 pole	5TJ4306-7	4	2,720	
	10		5TJ4310-7	4	2,720	
	16		5TJ4316-7	4	2,720	
	20		5TJ4320-7	4	2,720	
	25		5TJ4325-7	4	2,720	
	32		5TJ4332-7	4	2,720	
	40		5TJ4340-7	4	3,300	
	50		5TJ4350-7	4	3,300	
	63		5TJ4363-7	4	3,300	
415V AC						
	6	4 pole	5TJ4406-7	3	3,590	
	10		5TJ4410-7	3	3,590	
	16		5TJ4416-7	3	3,590	
	20		5TJ4420-7	3	3,590	
	25		5TJ4425-7	3	3,590	
	32		5TJ4432-7	3	3,590	
	40		5TJ4440-7	3	5,510	
	50		5TJ4450-7	3	5,510	
	63		5TJ4463-7	3	5,510	





5TJ

residual current circuit breakers

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Selection & ordering data

5TJ residual current circuit breakers

Product	Icn (kA)	In (A)	Sensitivity						Standard packaging No. of pieces
			30mA	List price per PU (Per Unit)	100mA	List price per PU (Per Unit)	300mA	List price per PU (Per Unit)	
2 pole									
	6	25	5TJ7312-0	2,400	5TJ7412-0	3,500	5TJ7612-0	3,500	5
	6	40	5TJ7314-0	2,400	5TJ7414-0	3,500	5TJ7614-0	3,500	5
	6	63	5TJ7316-0	3,800	5TJ7416-0	5,200	5TJ7616-0	5,200	5
	10	25	5TJ8312-0	3,000	5TJ8412-0	6,250	5TJ8612-0	6,250	5
	10	40	5TJ8314-0	3,000	5TJ8414-0	6,250	5TJ8614-0	6,250	5
	10	63	5TJ8316-0	7,000	5TJ8416-0	8,500	5TJ8616-0	8,500	5
4 pole									
	6	25	5TJ7342-0	3,300	5TJ7442-0	4,700	5TJ7642-0	4,700	3
	6	40	5TJ7344-0	3,300	5TJ7444-0	4,700	5TJ7644-0	4,700	3
	6	63	5TJ7346-0	4,800	5TJ7446-0	6,200	5TJ7646-0	6,200	3
	10	25	5TJ8342-0	3,700	5TJ8442-0	7,300	5TJ8642-0	7,300	3
	10	40	5TJ8344-0	4,100	5TJ8444-0	7,300	5TJ8644-0	7,300	3
	10	63	5TJ8346-0	7,500	5TJ8446-0	10,500	5TJ8646-0	10,500	3



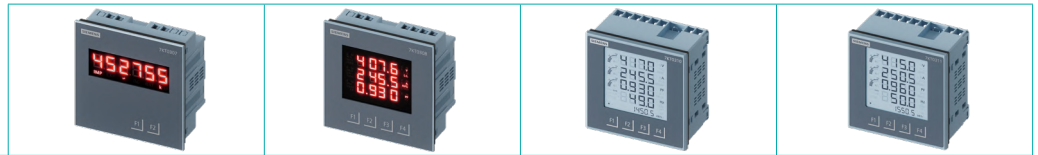
SMART 7KT

power monitoring devices

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SMART 7KT Overview

Multifunction meters



Parameters	7KT0307	7KT0308	7KT0310	7KT0311
Description	Single line LED Class 1	Multi line LED Class 1	LCD Class 1	LCD Class 0.5s
Accuracy	Class 1 (active energy)			Class 0.5s (active energy)
Measured parameters	All parameters			
Power quality indicators measured	-	THD, individual harmonics*		
Display	Single line LED	Multi line LED	LCD with graphic display	
Digital Input (DI) / Digital Output (DO)	-	1 DI		1 DI (dual source) + 1 DO
Communication protocol	Modbus RTU			
Import / Export	Yes			

Accurate measurement of electrical parameters for ISO 50001 compliant energy management.



Note: * = via communication

Discrete panel meters







Parameters	7KT0110	7KT0120	7KT0210
Description	VA meter	VAF meter	3-phase energy meter
Accuracy	Class 1 (voltage & current)		Class 1 (active energy)
Measured parameters	Voltage, current	Voltage, current, frequency	Energy (dual source), power, power factor
Display	Multi line LED with two distinct colors	Multi line LED	Single line LCD
Digital Input (DI) / Digital Output (DO)	-		1 DI (dual source)
Communication protocol	-		Modbus RTU






Precise energy recording in dual-source energy scenarios.

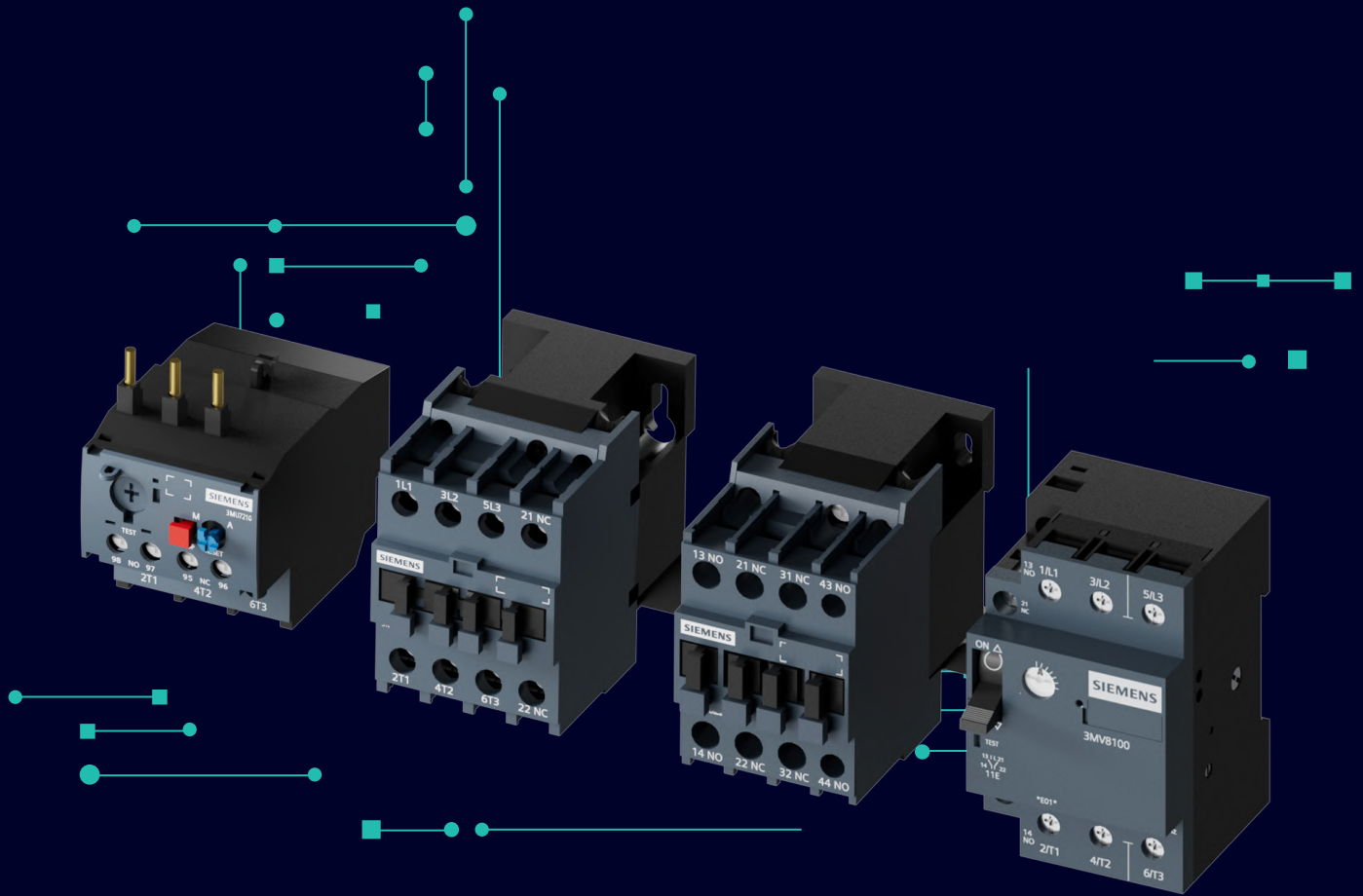
Selection & ordering data

SMART 7KT multifunction meters

Product image	Description	Features	Article no.	List price per PU (Per Unit)	Status
	Single line LED Class 1 accuracy Modbus RTU	<ul style="list-style-type: none"> Bright single-line LED display for easy visualization of essential energy parameters. An integrated communication port to communicate with energy management software. 	7KT0307	4,510	
	Multi line LED Class 1 accuracy Modbus RTU	<ul style="list-style-type: none"> Large multi-line LED display for easy visualization of essential energy parameters. An integrated communication port to communicate with energy management software. 	7KT0308	6,970	
	Multi line LCD Class 1 accuracy Modbus RTU	<ul style="list-style-type: none"> Large backlit LCD display for easy visualization of power quality indicators. Integrated Digital Input (DI) to communicate field signals without additional hardware. 	7KT0310	9,020	
	Multi line LCD Class 0.5s accuracy Modbus RTU	<ul style="list-style-type: none"> Large backlit LCD display for easy visualization of power quality indicators. Configurable Digital Input (DI) and Digital Output (DO) ports for simplified load management. 	7KT0311	10,050	

SMART 7KT discrete panel meters

Product image	Description	Features	Article no.	List price per PU (Per Unit)	Status
	VA meter	<ul style="list-style-type: none"> Bright multi-colored LED display for easy identification of voltage and current parameters. 	7KT0110	2,560	
	VAF meter	<ul style="list-style-type: none"> Large multi-line LED display for easy visualization of voltage, current and frequency parameters. 	7KT0120	2,870	
	3-phase energy meter Modbus RTU	<ul style="list-style-type: none"> Dual source energy measurement. An integrated communication port to communicate with energy management software. Single line LCD display for clear visualization of essential energy parameters. 	7KT0210	4,460	



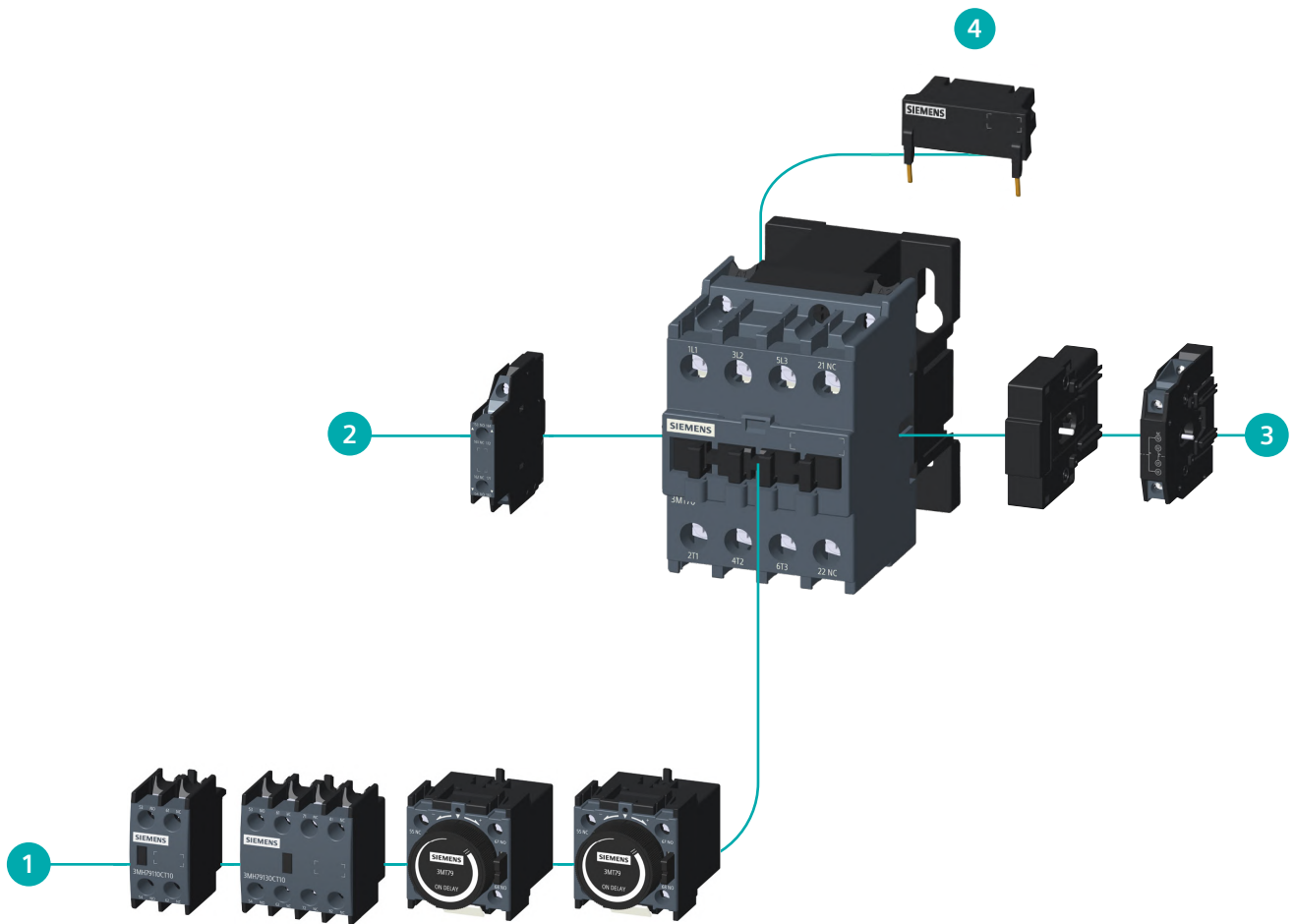
SINOPLUS

control products

SINOPLUS ความเรียบง่ายที่ทรงพลัง

3MT7 Overview

System overview



- 1 Front auxiliary switches, pneumatic timer
- 2 Lateral auxiliary switches
- 3 Mechanical interlock, Electro-mechanical interlock
- 4 Surge suppressor

Note: The linking lines indicate the correct placement of the accessories onto the product.

Selection & ordering data



3MT7 power contactors




Size	Rated data					Article no.	List price per PU (Per Unit)	Status
	AC-3 at 400V at 55°C	Ratings of three-phase motors at 50Hz and 400V	AC-1 at 690V at 40°C	Auxiliary contacts				
	A	kW	A	NO	NC			
Size 0 	9	4	25	1	-	3MT7010-0AA10-0AL2	600	
	9	4	25	-	1	3MT7010-0AA01-0AL2	600	
	12	5.5	25	1	-	3MT7012-0AA10-0AL2	780	
	12	5.5	25	-	1	3MT7012-0AA01-0AL2	780	
Size 1 	18	7.5	32	1	-	3MT7018-1AA10-0AL2	1,130	
	18	7.5	32	-	1	3MT7018-1AA01-0AL2	1,130	
Size 2 	25	11	40	1	-	3MT7025-2AA10-0AL2	1,680	
	25	11	40	-	1	3MT7025-2AA01-0AL2	1,680	
	32	15	40	1	-	3MT7032-2AA10-0AL2	2,390	
	32	15	40	-	1	3MT7032-2AA01-0AL2	2,390	
	40	18.5	50	1	-	3MT7040-2AA10-0AL2	2,630	
	40	18.5	50	-	1	3MT7040-2AA01-0AL2	2,630	
Size 3 	50	22	80	1	1	3MT7050-3AA11-0AL2	3,140	
	65	30	80	1	1	3MT7065-3AA11-0AL2	4,600	
Size 4 	80	37	125	1	1	3MT7080-4AA11-0AL2	5,900	
	95	45	125	1	1	3MT7095-4AA11-0AL2	6,560	
Size 5 	120	55	160	-	-	3MT7120-5AA00-0AL2	7,530	
	140	75	160	-	-	3MT7140-5AA00-0AL2	10,660	
Size 6 	170	90	210	-	-	3MT7170-6AA00-0AL2	13,840	
	205	110	220	-	-	3MT7205-6AA00-0AL2	19,440	
Size 7 	250	132	300	-	-	3MT7250-7AA00-0AL2	31,830	
	300	160	300	-	-	3MT7300-7AA00-0AL2	36,810	
Size 8 	400	200	400	-	-	3MT7400-8AA00-0AL2	44,610	


Note: The standard coil voltage is 230 VAC, 50/60 Hz. Other coil voltages are available upon request; please refer to the AC Coil Code Table.

Selection & ordering data

Accessories

Pneumatic timer Compatible with 3MT7 3 pole power contactors Size 0, 1, 2, 3, 4								
Product image	No. of auxiliary contacts		Mounting position	Function	Timing	Article no.	List price per PU (Per Unit)	Status
	NO	NC			Seconds			
ON delay pneumatic timer 	1	1	Top	ON delay	0.1-3	3MT7900-OPN10	590	
					0.1-30	3MT7900-OPN20	670	
					10-180	3MT7900-OPN30	690	
OFF delay pneumatic timer 	1	1	Top	OFF delay	0.1-3	3MT7900-OPF10	670	
					0.1-30	3MT7900-OPF20	690	
					10-180	3MT7900-OPF30	720	

Auxiliary switches Compatible with 3MT7 3 pole power contactors and 3MH								
Product image	No. of auxiliary contacts		Mounting position	Compatible contactor	Maximum mountable auxiliary switches	Article no.	List price per PU (Per Unit)	Status
	NO	NC						
1 pole & 2 pole front auxiliary switches 	1	-	Front	Size 0, 1, 2, 3, 4	1	3MH7910-OCT10	240	
	-	1				3MH7901-OCT10	240	
	2	-				3MH7920-OCT10	240	
	1	1				3MH7911-OCT10	240	
	-	2				3MH7902-OCT10	240	
4 pole front auxiliary switches 	4	-	Front	Size 0, 1, 2, 3, 4	1	3MH7940-OCT10	430	
	3	1				3MH7931-OCT10	430	
	2	2				3MH7922-OCT10	430	
	1	3				3MH7913-OCT10	430	
	-	4				3MH7904-OCT10	430	
Lateral auxiliary switches 	2	-	First left or first right	Size 5, 6, 7, 8	2	3MH7920-OCL10	320	
	1	1				3MH7911-OCL10	320	
	1	1	First left or first right		2	3MH79110CL21	430	
			Second left or second right		2	3MH79110CL22	430	


Surge suppressor Compatible with SINOPLUS 3MT7 3 pole power contactors						
Product image	Voltage	Mounting position	Compatible contactor	Article no.	List price per PU (Per Unit)	Status
Surge suppressor 	24-48V AC 50/60Hz	Between A1-A2 coil terminals	Size 0, 1, 2, 3, 4	3MT7900-1SC21	210	
	110-240V AC 50/60Hz			3MT7900-1SL21	210	
	380-440V AC 50/60Hz			3MT7900-1SV21	210	

Selection & ordering data

Accessories

Interlock For 3MT7 3-pole power contactors							
Mechanical interlock	Suitable for contactors Size 0, 1, 2		Suitable for contactor Size 3		Suitable for contactor Size 4		
		3MT7900-1XM01		3MT7900-1XM02		3MT7900-1XM03	
		Unit Price (THB)		Unit Price (THB)		Unit Price (THB)	
		220	340	380			
	Electro-mechanical interlock	Suitable for contactors Size 0, 1, 2		Suitable for contactor Size 3		Suitable for contactor Size 4	
			3MT7900-1XE01		3MT7900-1XE02		3MT7900-1XE03
Unit Price (THB)			Unit Price (THB)		Unit Price (THB)		
		480	590	610			

Accessories

Mechanical Interlock For 3MT7 3 pole power contactors				
Product image	Contactors	Article no.	List price per PU (Per Unit)	Status
	Size 5	3MT7900-1XM04	2,570	
	Size 6	3MT7900-1XM05	2,570	
	Size 7	3MT7900-1XM06	3,080	
	Size 8	3MT7900-1XM07	3,280	
	Size 5 / Size 6	3MT7900-1XM45	3,080	
	Size 6 / Size 7	3MT7900-1XM56	3,080	

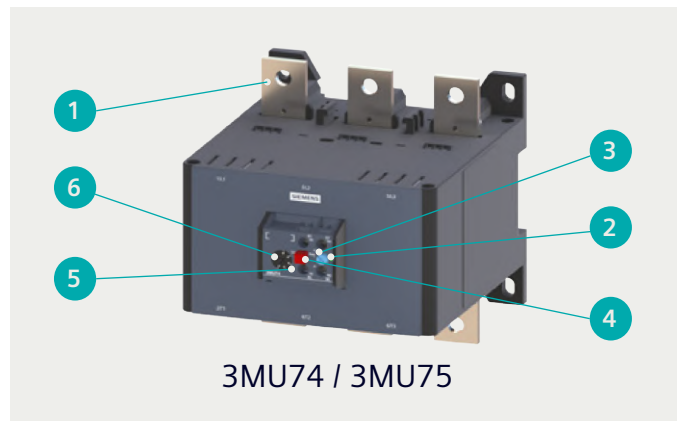
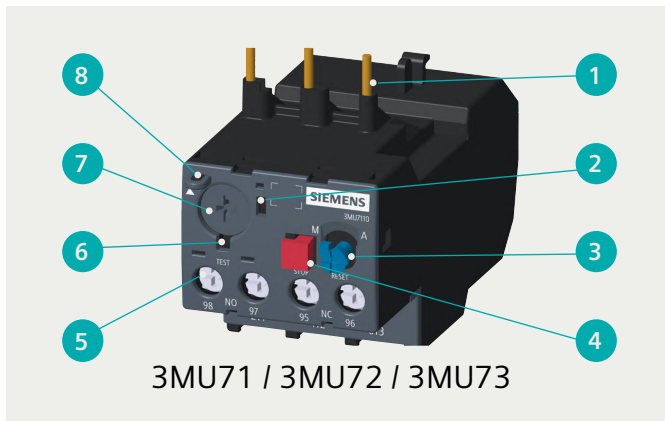
Coil code (AC)									
Frequency	24V	36V	48V	110V	220V	230V	380V	400V	415V
50/60Hz	C2	G2 [#]	H2 [#]	F2	N2	L2	Q2	V2 [#]	R2 [#]

Note:

[#]Not available for Size 5, 6, 7 and 8 contactors

3MU7 Overview

Functions



- 1 Connection for mounting onto contactors
- 2 Relay status
- 3 Selector switch for auto / manual reset and reset button
- 4 Stop button
- 5 Auxiliary circuit terminals
- 6 Test function
- 7 Motor current setting dial
- 8 Provision for fixing sealing cover

- 1 Terminals for cable / bar connection
- 2 Relay status
- 3 Selector switch for auto / manual reset and reset button
- 4 Stop / test button
- 5 Auxiliary circuit terminals
- 6 Motor current setting dial

Protection




- Tripping due to overload
- Tripping due to single-phase failure

Application

Our 3MU7 thermal overload relays are suitable for applications that require optimum inverse-time delayed protection of three-phase or single-phase AC motors. In the case of a single-phase motor, all the conducting paths of the relay must be connected in series. 3MU71 / 3MU72 / 3MU73 relays comply with tripping class 10 and 3MU74 / 3MU75 relays comply to tripping class 10A as per IEC 60947-4-1. The 3MU7 thermal overload relays compensate ambient temperature from the range of -5 to +55°C according to IEC 60947-4-1.



Selection & ordering data

3MU7 thermal overload relays

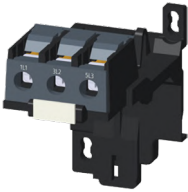
Size	Trip class	Rated power three-phase motor at 400V	Current setting value	Short circuit protection with fuse, type of coordination "2" (operational class gG)	Suitable for contactor size	Article no.	List price per PU (Per Unit)	Status
		kW	A	A				
1 	Class 10	0.04	0.10-0.16	2	0, 1, 2	3MU7110-0AA0	710	
	Class 10	0.06	0.16-0.25	2	0, 1, 2	3MU7110-0BA0	710	
	Class 10	0.09	0.25-0.40	2	0, 1, 2	3MU7110-0CA0	710	
	Class 10	0.18	0.40-0.63	2	0, 1, 2	3MU7110-0DA0	710	
	Class 10	0.25	0.63-1	4	0, 1, 2	3MU7110-0EA0	710	
	Class 10	0.55	1-1.6	4	0, 1, 2	3MU7110-0FA0	710	
	Class 10	0.75	1.25-2	6	0, 1, 2	3MU7110-0GA0	710	
	Class 10	0.75	1.6-2.5	6	0, 1, 2	3MU7110-0HA0	710	
	Class 10	1.5	2.5-4	10	0, 1, 2	3MU7110-0JA0	710	
	Class 10	2.2	4-6	16	0, 1, 2	3MU7110-0KA0	710	
	Class 10	3	5.5-8	20	0, 1, 2	3MU7110-0LA0	710	
	Class 10	4	7-10	20	0, 1, 2	3MU7110-0MA0	730	
	Class 10	5.5	9-13	25	0, 1, 2	3MU7110-0NA0	730	
	Class 10	7.5	12-18	32	1, 2	3MU7110-0PA0	750	
	Class 10	11	17-25	50	1, 2	3MU7110-0QA0	880	
2 	Class 10	15	23-32	63	2	3MU7210-1AA0	1,030	
	Class 10	18.5	28-36	63	2	3MU7210-1BA0	1,030	
3 	Class 10	15	23-32	63	3, 4	3MU7310-2AA0	1,790	
	Class 10	18.5	30-40	80	3, 4	3MU7310-2BA0	1,790	
	Class 10	22	37-50	80	3, 4	3MU7310-2CA0	1,790	
	Class 10	30	48-65	80	3, 4	3MU7310-2DA0	1,790	
	Class 10	37	55-70	125	4	3MU7310-2EA0	2,150	
	Class 10	37	63-80	125	4	3MU7310-2FA0	2,150	
	Class 10	45	80-93	125	4	3MU7310-2GA0	4,170	

Selection & ordering data

3MU7 thermal overload relays

Size	Trip class	Current setting value	Short circuit protection with fuse, type of coordination "2" (operational class gG)	Suitable for contactor size	Article no.	List price per PU (Per Unit)	Status
4 	Class 10A	85-135A	224	Screw mounting	3MU7410-3AA1	5,060	
	Class 10A	115-180A	250	Screw mounting	3MU7410-3BA1	5,060	
	Class 10A	160-250A	355	Screw mounting	3MU7410-3CA1	5,300	
	Class 10A	200-320A	400	Screw mounting	3MU7410-3DA1	5,930	
	Class 10A	250-400A	500	Screw mounting	3MU7410-3EA1	6,360	
5 	Class 10A	312-500A	500	Screw mounting	3MU7510-4AA1	9,020	

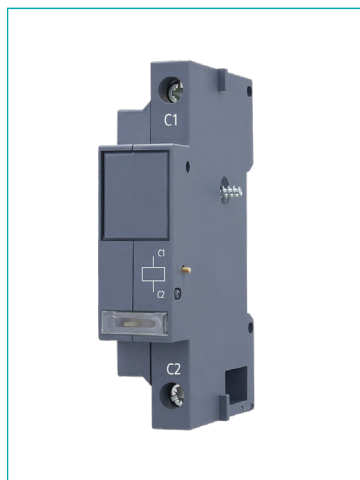
Accessories

Type	Overload relay size	Article no.	List price per PU (Per Unit)	Status
Relay stand-alone installation kit 	1	3MU7900-0MA10	810	
	2	3MU7900-0MA20	810	
	3	3MU7900-0MA30	1,860	

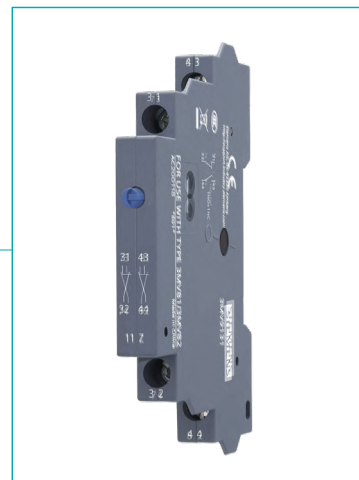
Note: Accessories shown are only applicable to 3MU71, 3MU72 and 3MU73.

3MV8 Overview

System overview



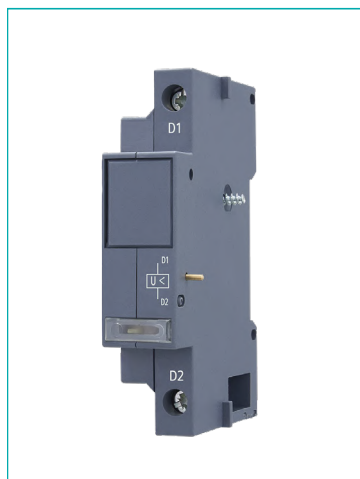
Shunt release



Short circuit fault indicator



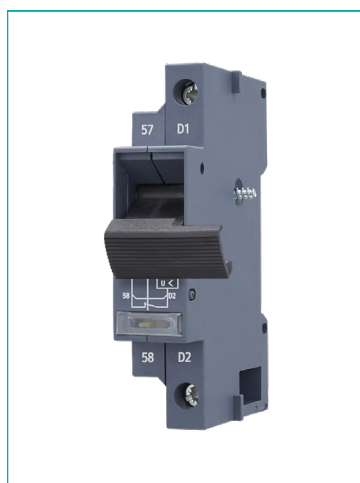
3MV81



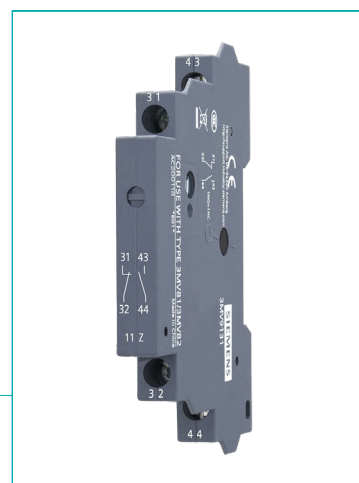
Undervoltage release



3MV82





Undervoltage release with lead action auxiliary contact








Auxiliary switch

Selection & ordering data

3MV8 motor starter protectors

Product image	Rated current	Motor power	Current setting for thermal overload	Instantaneous trip	Auxiliary contacts	Article no.	List price per PU (Per Unit)	Status
	(A)	(kW)	(A)	(A)				
	0.16	0.04	0.11 ~ 0.16	1.9	1NO+1NC	3MV8100-1MB00	2,220	
	0.24	0.06	0.16 ~ 0.24	2.9	1NO+1NC	3MV8100-1MC00	2,220	
	0.4	0.09/0.12	0.24 ~ 0.4	4.8	1NO+1NC	3MV8100-1MD00	2,220	
	0.6	0.12/0.18	0.4 ~ 0.6	7.2	1NO+1NC	3MV8100-1ME00	2,220	
	1	0.25	0.6 ~ 1	12	1NO+1NC	3MV8100-1MF00	2,220	
	1.6	0.37/0.55	1 ~ 1.6	19	1NO+1NC	3MV8100-1MG00	2,220	
	2.4	0.75	1.6 ~ 2.4	29	1NO+1NC	3MV8100-1MH00	2,220	
	3.2	1.1	2 ~ 3.2	38	1NO+1NC	3MV8100-1NH00	2,220	
	4	1.1/1.5	2.4 ~ 4	48	1NO+1NC	3MV8100-1MJ00	2,220	
	5	1.5/2.2	3.2 ~ 5	60	1NO+1NC	3MV8100-1NJ00	2,220	
	6	2.2	4 ~ 6	72	1NO+1NC	3MV8100-1MK00	2,220	
	8	3	5 ~ 8	96	1NO+1NC	3MV8100-1NK00	2,220	
	10	3/4	6 ~ 10	120	1NO+1NC	3MV8100-1ML00	2,270	
	13	4/5.5	8 ~ 13	156	1NO+1NC	3MV8100-1NL00	2,270	
	16	7.5	10 ~ 16	190	1NO+1NC	3MV8100-1MM00	2,270	
	20	7.5	14 ~ 20	240	1NO+1NC	3MV8100-1MN00	2,270	
25	11	18 ~ 25	300	1NO+1NC	3MV8100-1MP00	2,380		
	1.6	0.37/0.55	1 ~ 1.6	19	1NO+1NC	3MV8200-1MG00	4,230	
	2.4	0.75	1.6 ~ 2.4	29	1NO+1NC	3MV8200-1MH00	4,230	
	4	1.1/1.5	2.4 ~ 4	48	1NO+1NC	3MV8200-1MJ00	4,230	
	6	2.2	4 ~ 6	72	1NO+1NC	3MV8200-1MK00	4,230	
	10	3/4	6 ~ 10	120	1NO+1NC	3MV8200-1ML00	4,230	
	16	5.5/7.5	10 ~ 16	190	1NO+1NC	3MV8200-1MM00	4,230	
	25	11	16 ~ 25	300	1NO+1NC	3MV8200-1MN00	4,680	
	32	15	22 ~ 32	380	1NO+1NC	3MV8200-1MP00	4,680	
	40	18.5	28 ~ 40	480	1NO+1NC	3MV8200-1MQ00	5,500	
	52	22	36 ~ 52	600	1NO+1NC	3MV8200-1MR00	5,500	

Accessories

Type	Product Image	Suitable for	Mounting	Auxiliary contacts	Article no.	List price per PU (Per Unit)	Status
Auxiliary contact		3MV81 / 3MV82	Right side	1NO+1NC	3MV9131-3AA00	330	
Short circuit fault indicator		3MV81 / 3MV82	Right side	1NO+1NC	3MV9131-7AA00	650	
Undervoltage release		3MV81 / 3MV82	Left side	AC230V 50Hz	3MV9132-0AB15	1,390	
Undervoltage release with lead action auxiliary contacts		3MV81 / 3MV82	Left side	AC230V 50Hz	3MV9132-0AB35	1,390	
Shunt release		3MV81 / 3MV82	Left side	AC230V 50Hz	3MV9132-0AB55	990	

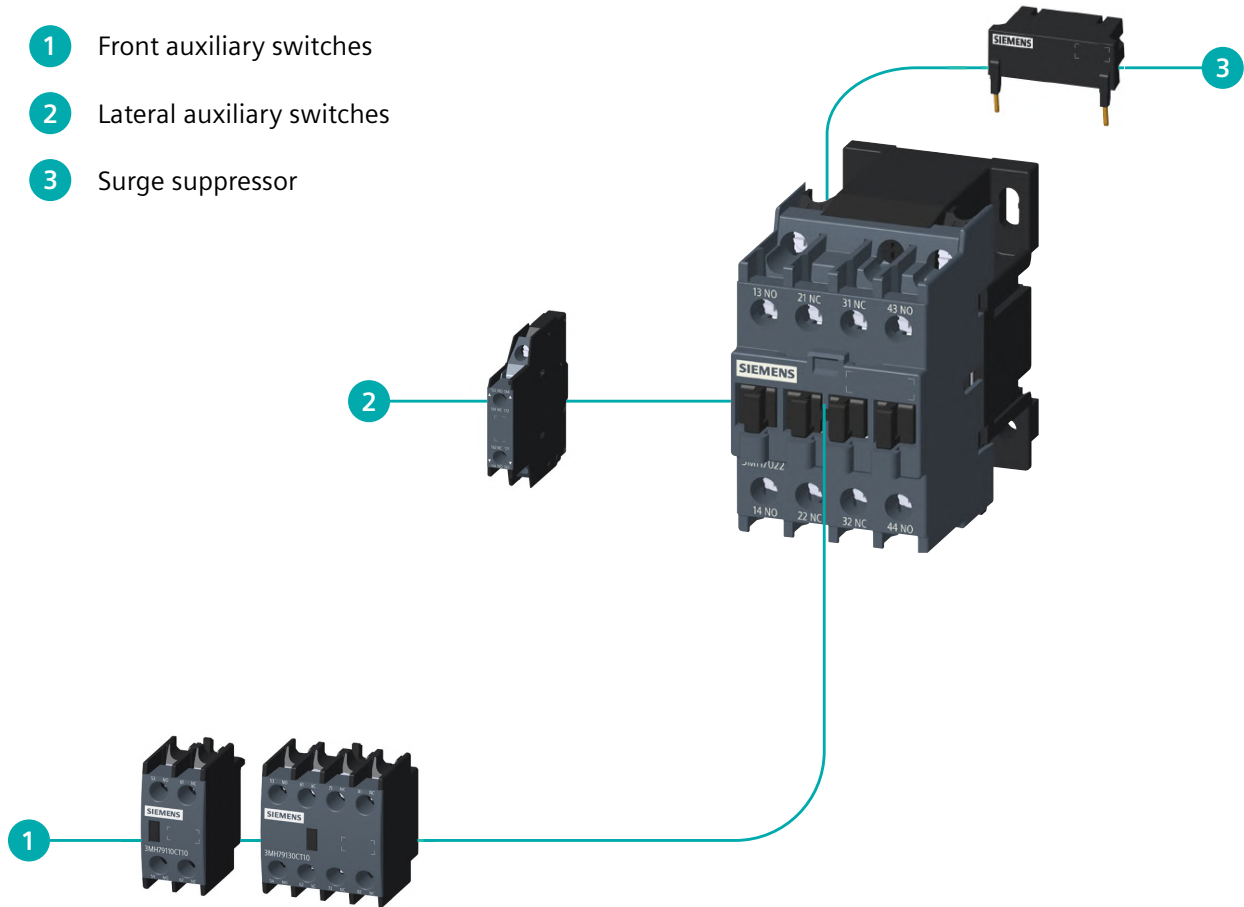
Note:

(1) Auxiliary contacts and short circuit fault indicators can be installed on the right side of the circuit breakers at the same time (the short circuit fault indicators are installed on the inside first, and the auxiliary contacts are installed on the outside). It is also possible to install only one auxiliary contact or only one short circuit fault indicator.

(2) Undervoltage release, undervoltage release with advance action auxiliary contact, and shunt release are all installed on the left side of the circuit breakers, but only one of the three can be installed at a time.

3MH Overview

System overview



Note: The linking lines indicate the correct placement of the accessories onto the product.

Selection & ordering data

3MH7 contactor relays

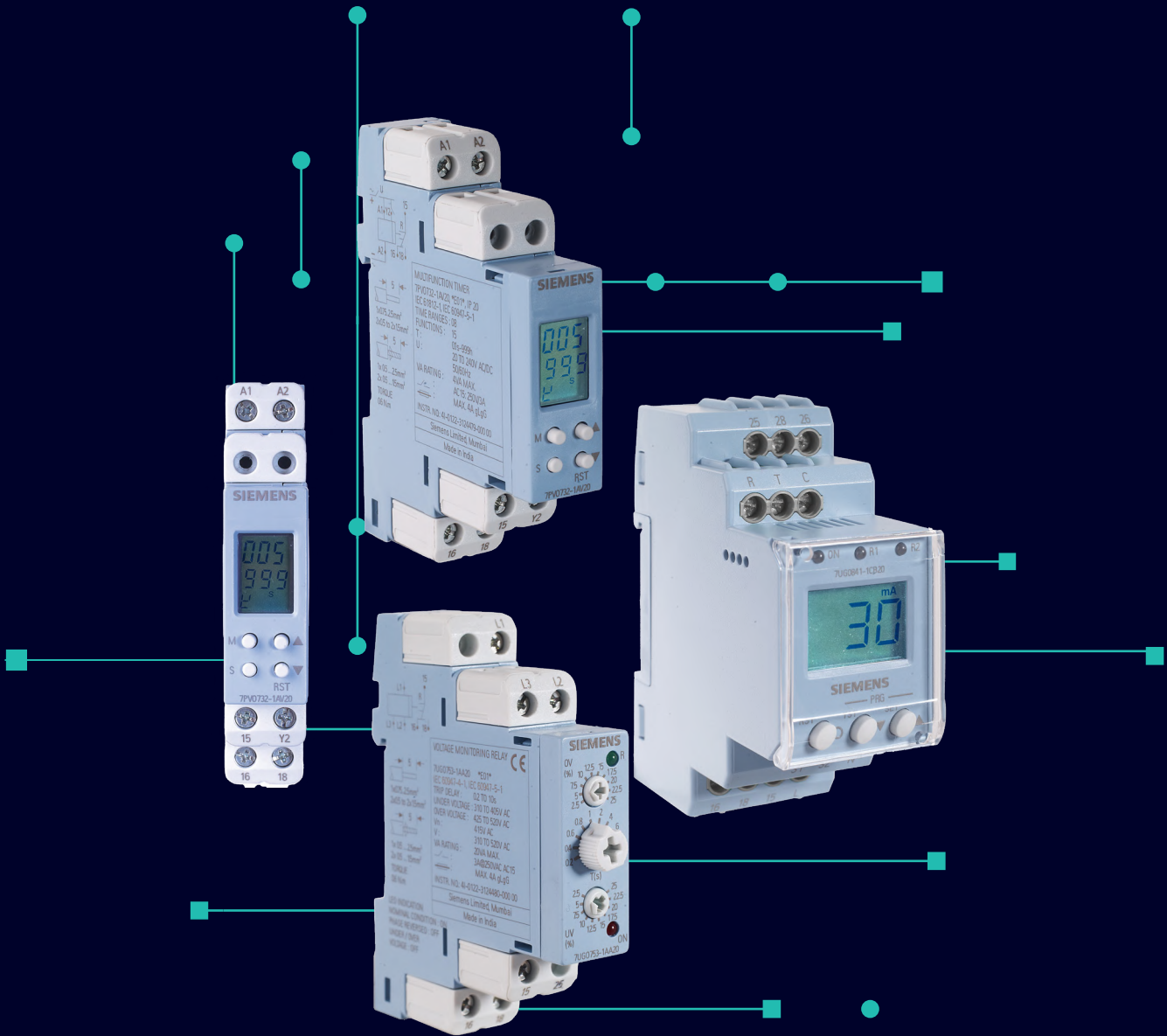


Operational current AC-15 at 230V AC	Contacts		Article no.	List price per PU (Per Unit)	Status
	NO	NC			
6A	4	0	3MH7022-1AL20	740	
6A	3	1	3MH7031-1AL20	740	
6A	2	2	3MH7040-1AL20	740	

Note:

The standard coil voltage is 230 VAC, 50/60 Hz. Other coil voltages are available upon request; please refer to the AC Coil Code Table.

The article numbers for front auxiliary switches, lateral auxiliary switches, and surge suppressors are the same as those for the accessories of 3MT7 3-pole power contactors.



7UG0, 7PVO monitoring and control devices

SINOPLUS ความเรียบง่ายที่ทรงพลัง

7UG0 Overview

Product range

Article no.		Relay								
		Line monitoring relay			Voltage monitoring relay	Current monitoring relay		Earth leakage relay	Earth fault monitoring relay	Temperature controller (TC)
		7UG0712	7UG0818	7UG0814	7UG0753	7UG082	7UG083	7UG084	7UG086	7UG048
Ø	3Ø 3W	3Ø 3W / 3Ø 4W	1Ø 2W / 3Ø 3W / 3Ø 4W	3Ø 3W	1Ø 2W	1Ø 2W / 3Ø 3W / 3Ø 4W	1Ø 2W / 3Ø 3W / 3Ø 4W	1Ø 2W / 3Ø 3W / 3Ø 4W		
Features	Phase failure protection	✓	✓	✓	✓					
	Imbalance protection	✓	✓	✓		✓				
	Phase reversal protection	✓	✓	✓	✓					
	Undervoltage protection		✓	✓	✓					
	Overvoltage protection		✓	✓	✓					
	Underfrequency protection		✓	✓						
	Overfrequency protection		✓	✓						
	Neutral loss protection			✓						
	Earth leakage protection							✓		
	Undercurrent protection					✓	✓			
	Overcurrent protection					✓	✓			
	Earth fault								✓	
	Input for TC									TC/RTD

Relay type	Article no.	Sensor type
Thermistor motor protection relay	7UG0881	PTC
Water level controller relay	7UG0885	Conductive sensor probes: Stainless steel

Selection & ordering data

7UG0 monitoring relays

Type	Description	Contacts	Supply voltage	Width (mm)	Article no.	List price per PU (Per Unit)	Status
Line monitoring relay	Line monitoring relay, 3Ø - 3W	1 CO	Self powered	17.5	7UG0712-1AA20	2,150	
	Digital line monitoring relay, 3Ø - 3W, 3Ø - 4W	2x 1 CO	Self powered	35	7UG0818-1CA20	3,900	
Voltage monitoring relay	Voltage monitoring relay, 3Ø - 3W	1 CO	Self powered	17.5	7UG0753-1AA20	2,770	
Current monitoring relay	Digital current monitoring, 1Ø - 2W	1 CO	110V AC	35	7UG0821-1AB20	3,900	
	Digital current monitoring, 1Ø - 2W	1 CO	230V AC	35	7UG0822-1AD20	3,900	
	Digital current monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	1 CO	110V AC	35	7UG0831-1AB20	4,610	
	Digital current monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	1 CO	230V AC	35	7UG0832-1AD20	4,610	
Earth leakage relay	Digital earth leakage monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	2x 1 CO	110V AC	35	7UG0841-1CB20	5,020	
	Digital earth leakage monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	2x 1 CO	230V AC	35	7UG0842-1CD20	5,020	
CBCT for earth leakage relay	Core balance CT 35mm				7UG0996	2,560	
	Core balance CT 70mm				7UG0997	3,080	
	Core balance CT 120mm				7UG0999	5,020	
	Core balance CT 210mm				7UG0994	8,610	
	Core balance CT 310mm				7UG0995	10,050	
Temperature controlling relay	Temperature controller with PID/ON-OFF Control suitable for TC/RTD inputs	2 NO + SSR output	85 - 270V AC/DC	48	7UG0480-1IU20	4,610	

Selection & ordering data

7UG0 monitoring relays

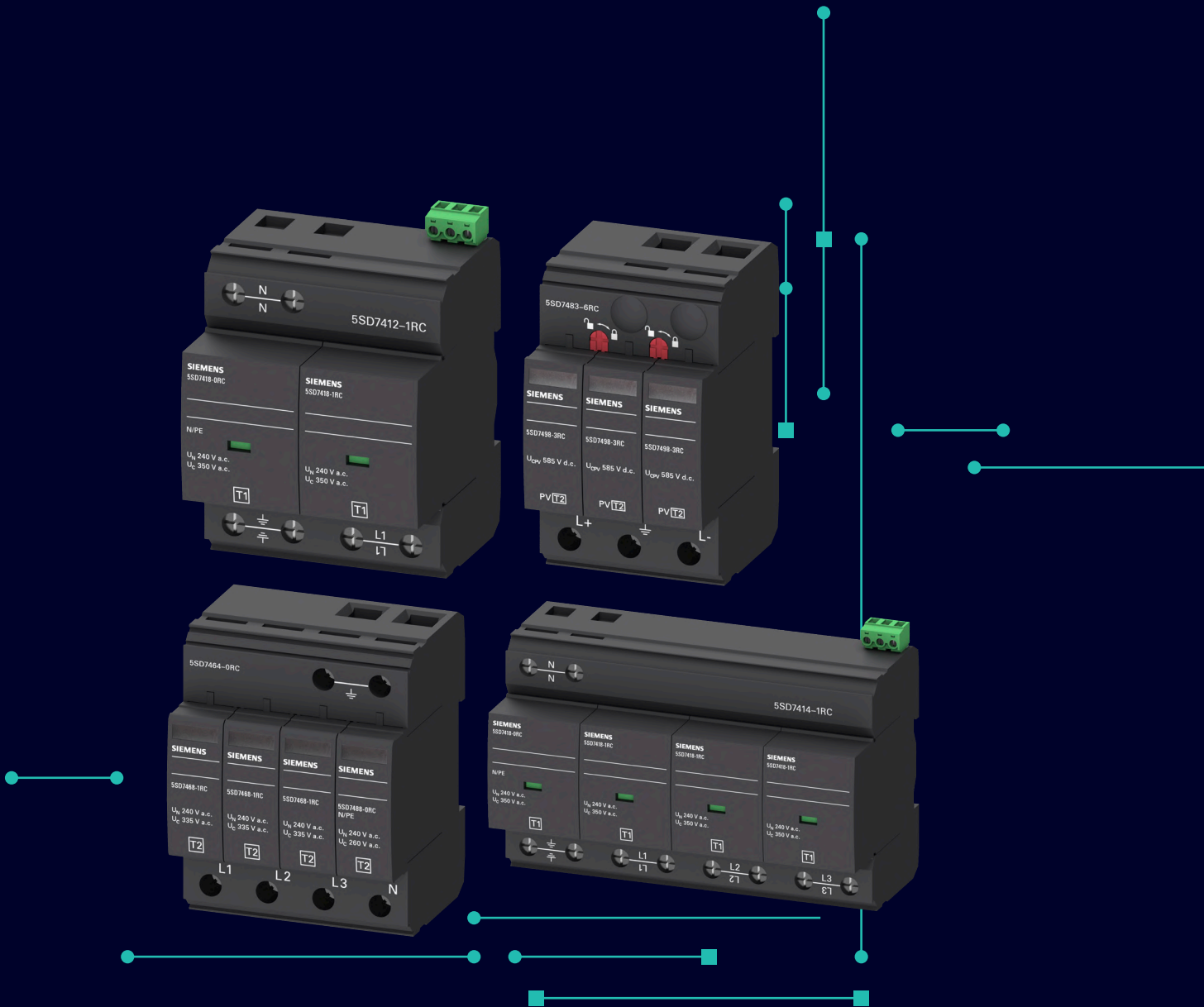
Type	Description	Contacts	Supply voltage	Width (mm)	Article no.	List price per PU (Per Unit)	Status
Earth fault monitoring relay	Digital earth fault monitoring relay 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	2x 1 CO	85 - 270V AC/DC	35	7UG0861-1BU20	5,230	
CBCT for earth fault monitoring relay*	Core balance CT 160A	3P			7UG09910	2,100	
		4P			7UG09911	2,300	
	Core balance CT 250A	3P			7UG09912	2,500	
		4P			7UG09913	2,700	
	Core balance CT 630A	3P			7UG09914	3,300	
		4P			7UG09915	3,500	
Thermistor motor protection relay	Thermistor motor protection relay for PTC type thermistor	2x 1 CO	110 - 240V AC/DC	35	7UG0881-1BU20	2,970	
Water level controller relay	Water level controller relay	2x 1 NO	110 - 240V AC/DC	35	7UG0885-1JU20	3,180	
Sensor for water level controller relay	Conductive sensor probe set of 3 probes				7UG0985-0YY00	510	

*CBCT for earth fault monitoring relay will be rectangular in dimension

7PV0 timing relays

Type	Description	Contacts	Supply voltage	Width (mm)	Article no.	List price per PU (Per Unit)	Status
ON delay	ON delay, 06 time ranges	1 CO	240V AC	17.5	7PV0712-1AD20	2,150	
Multifunction	10 functions, 07 time ranges	1 CO	12 - 240V DC 24 - 240V AC	17.5	7PV0723-1AZ20	2,770	
	15 functions, 08 time ranges	1 CO	20 - 240V AC/DC	17.5	7PV0732-1AV20	4,200	
Star-delta Timer	Time range 1....20s	1 NO delayed & 1 NO INST	12 - 240V DC AC/DC		3RP2574-1NW30	4,514	
	Time range 1....60s	1 NO delayed & 1 NO INST	12 - 240V DC AC/DC		3RP2576-1NW30	4,514	





Surge Protection Devices

SINOPLUS ความเรียบง่ายที่ทรงพลัง

Selection & ordering data

Surge Protection Devices

For protection of equipment against Lightning and Switching surges

- Standard: IEC 61643-11 / EN 61643-11
- Type 1, Type 2 and Photovoltaic surge protection
- With Remote signaling contact
- Integrated SPD health indicator

Type 1: Lightning Surge Arresters

- Maximum continuous operating voltage U_c : 350V



Reference No.	Rated voltage	Pole	Module width	Total I_{imp} (10/350 μ s)	I_{max} (8/20 μ s)	Remote status	List price per PU (Per Unit)
5SD74121RC	240V AC	1P+N	4	50kA	50kA	Yes	14,900
5SD74141RC	240/415V AC	3P+N	8	100kA	50kA	Yes	28,600

Type 2: Surge Arresters



Reference No.	Rated voltage	Pole	Module width	U_c	I_{max} (8/20 μ s)	Remote status	List price per PU (Per Unit)
5SD74610RC	240V AC	1P	1	335V AC	20kA	No	2,200
5SD74640RC	240/415V AC	3P+N	4	335V AC	40kA	No	7,500

Surge Arresters for Photovoltaic Application

On the DC side, over voltage protection is required for the inverters which can be ensured by using 5SD74836RC.
On the AC side, the over voltage protection can be ensured using surge arresters Type 2 (5SD7461-0RC/5SD7464-0RC)



Reference No.	Rated voltage	Pole	Module width	U_{cpv}	I_{max} (8/20 μ s)	Remote status	List price per PU (Per Unit)
5SD74836RC	1170V DC	L+ and L-	3	1170V DC	40kA	No	5,330



Power Factor Correction

SINOPLUS ความเรียบง่ายที่ทรงพลัง

Technical specifications

Technical data and limit values		Premium Cap	Standard Cap
Standards IEC 60831-1+2, EN 60831-1+2, UL 810 5th edition			
Overvoltage	V_{max}	VR + 10% (up to 8 h daily) / VR + 15% (up to 30 min daily) /VR + 20% (up to 5 min daily) / VR + 30% (up to 1 min daily)	
Overcurrent	I_{max}	Up to 2.0 · IR	up to 1.3 · IR (up to 1.5 · IR)
		including combined effects of harmonics, overvoltages and capacitance tolerance	
Inrush current	I_s	up to 500 · IR	up to 200 · IR
Losses			
• Dielectric		< 0.2 W/kvar	< 0.2 W/kvar
• Total		Approx. 0.35 to 0.45 W/kvar	< 0.45 W/kvar
Rated frequency	f	50/60 Hz	
Capacitance tolerance		– 5% / +5%	
Test voltages, terminal / terminal	V_{TT}	2.15 · VR1, AC, 2 s	2.15 · VR, AC, 2 s
Mean life expectancy	$t_{LD(CO)}$	240,000-220,000h Tc 40/D 200,000-220,000h Tc 40/60	up to 150,000 h Tc 40/C up to 115,000 h Tc 40/D
Ambient temperature		–40/60; max. temp. +60 °C; max. mean 24 h = +50 °C; max. mean 1 year = 35 °C; lowest temperature = –40 °C	max. mean 1 year = 35 °C; lowest temperature = –40 °C
Cooling		natural or forced	
Humidity	H_{rel}	max. 95%	
Altitude		max. 4000 m above sea level	
Mounting position		upright / horizontal	upright
Safety		Self-healing technology, 3 phase overpressure disconnecter maximum allowed fault current 10,000 A in accordance with UL810 standard	
Discharge module		ceramic discharge module or discharge module block	discharge module, integrated in terminal
		external discharge module for > 660 V	
Case		extruded aluminum can	
Enclosure		IP20, indoor mounting (optionally with terminal cap for IP54)	IP20, indoor mounting
Dielectric		polypropylene film	
Impregnation		inert gas, Soft resin (higher 415V)	biodegradable soft resin, semi-dry
Terminals	25 mm ² cable cross-section	safety terminal with electric shock protection (IP20), max	screw terminal, max.
Certification		cUL file # E238746, GOST	-
Number of switching operations switchings per year according to IEC 60831-1+2		Max. 15000	Max. 5000

Selection & ordering data

Standard Cap 3-phase

Rate Voltage	Output in KVAR	Capacity	Standard Cap			
	50Hz	in μF 3 x	Dimensions D xH (mm.)	weight kg.	Ordercode MLFB	List price per PU (Per Unit)
400 V AC	15	99.5	75 x 275	1.4	4RB7150-3EA50	6,090
	20	132.5	85 x 275	1.8	4RB7200-3EA50	7,800
	25	166	85 x 350	2.2	4RB7250-3EA50	8,610
415 V AC	15	92	75 x 275	1.5	4RB7150-3EB50	6,090
	20	123	85 x 275	1.7	4RB7200-3EB50	7,800
	25	166	85 x 350	2.2	4RB7250-3EB50	8,610
	30	154	96 x 350	2.7	4RB7300-3EB50	9,670
440 V AC	15	82	75 x 275	1.4	4RB7150-3EE50	6,090
	20.8	114	85 x 275	1.7	4RB7208-3EE50	7,800
	25	137	85 x 350	2.2	4RB7250-3EE50	8,610
	30	164	96 x 350	2.7	4RB7300-3EE50	10,180
525 V AC	20.8	80	85 x 350	2.2	4RB7208-3FC50	7,800
	25	96	85 x 350	2.2	4RB7250-3FC50	8,610
	30	115	96 x 350	2.7	4RB7300-3FC50	9,670

Premium Cap 3-phase

Rate Voltage	Output in KVAR	Capacity	Premium Cap				
	50Hz	in μF 3 x	Dimensions D xH (mm.)	weight kg.	Ordercode MLFB	List price per PU (Per Unit)	
400 V AC	15	100	85 x 218	1.2	4RB8150-3EA10	7,800	
	20	133	100 x 224	1.7	4RB8200-3EA10	10,180	
	25	165	116 x 192	1.9	4RB8250-3EA10	10,450	
	Premium Cap Heavy Duty						
	40	265	136 x 233	3.7	4RB8400-3EA20	18,500	
	50	332	136 x 312	5.0	4RB8500-3EA20	20,230	
415 V AC	15	93	85 x 200	1.1	4RB8150-3EB10	8,470	
	20	124	100 x 207	1.6	4RB8208-3EB10	10,320	
	25	154	116 x 192	1.9	4RB8250-3EB10	10,980	
440 V AC	15	83	85 x 218	1.2	4RB8150-3EE10	8,470	
	20	110	100 x 207	1.6	4RB8200-3EE10	10,180	
	25	137	116 x 192	1.9	4RB8250-3EE10	10,580	
	30	165	125 x 192	2.3	4RB8300-3EE10*	11,900	
	Premium Cap Heavy Duty						
	40	219	136 x 217	3.7	4RB8400-3EE20	18,500	
	50	274	136 x 279	4.5	4RB8500-3EE20	20,230	
525 V AC	15	58	85 x 218	1.2	4RB8150-3FC10	7,020	
	20	77	100 x 224	1.7	4RB8200-3FC10	9,530	
	25	97	116 x 207	2.1	4RB8250-3FC10	10,580	
	30	116	125 x 207	2.4	4RB8300-3FC10**	11,900	
	Premium Cap Heavy Duty						
	40	154	136 x 233	3.7	4RB8400-3FC20	20,230	
800 V AC	15	25	100 x 224	2.1	4RB8150-3JA20	12,690	
	20	33	116 x 224	2.8	4RB8200-3JA20	14,280	
	25	41	116 x 224	2.8	4RB8250-3JA20	15,470	

* Discharge time ≤ 75 V in 90 s, Temperature class deviation -40/C max. 50 °C

** Temperature class deviation -40/B max. 45 °C

Selection & ordering data

Automatic Power Factor Correction Relay (APFC relay)

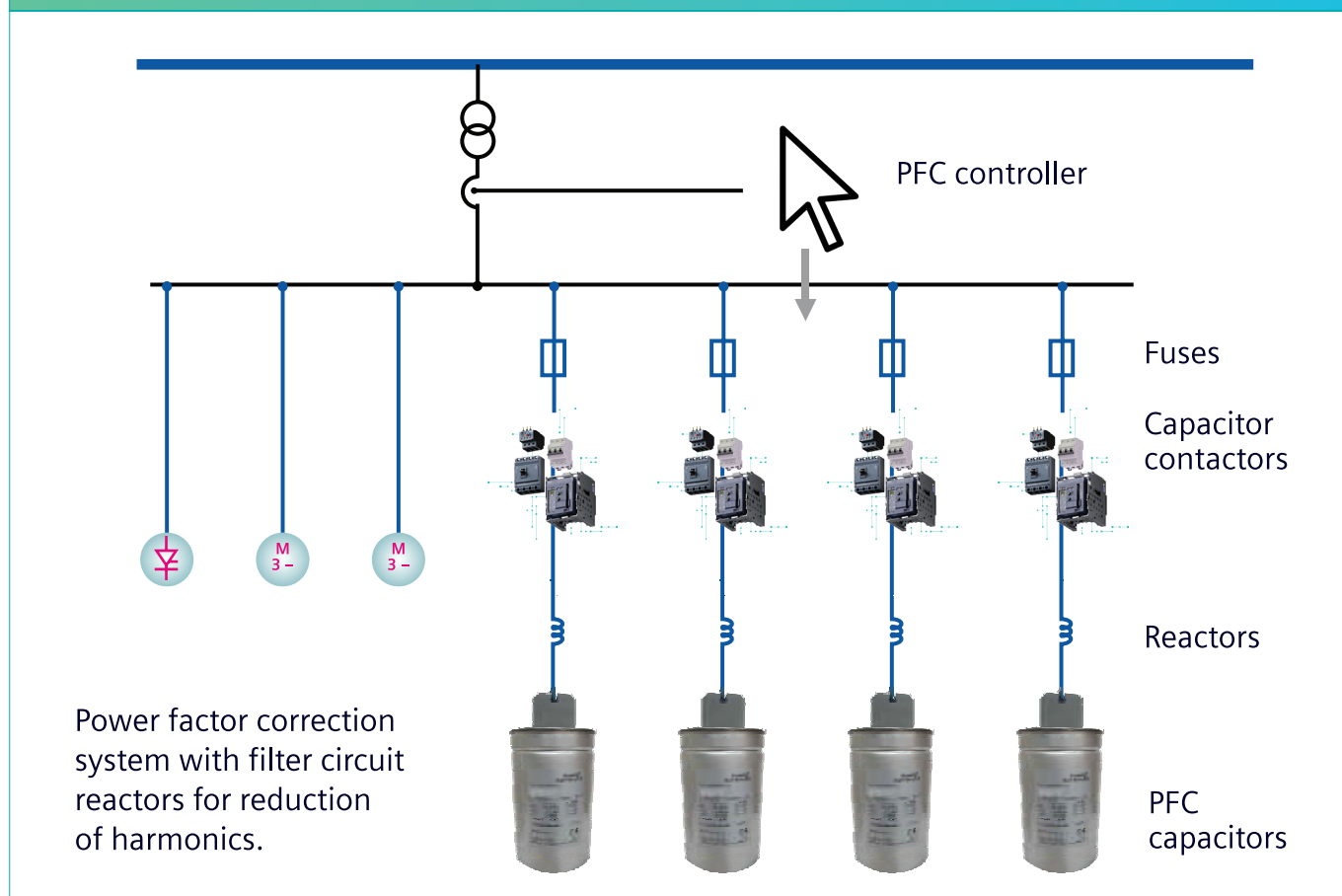
Features

- Easy accessibility of parameters
- Universal control supply—optimizing the no of variants
- Automatic/ Linear/ Rotational switching modes of banks
- Selectable 1A/ 5A current input
- LCD version with RS485 Communication MODBUS RTU Protocol
- Confirms to IEC 60947-5-1, carry CE and RoHS Compliant



Article No.	Description	List price per PU (Per Unit)
7UG05721GT20	<ul style="list-style-type: none"> • Intelligent 12 stage relay controls • Dual color Backlight LCD display • RS485 Communication MODBUS RTU Protocol 	21,500
7UG05721GT21	<ul style="list-style-type: none"> • Intelligent 12 stage relay controls • 4 digit 7 segment LED display 	14,000

Typical power factor correction circuit diagram



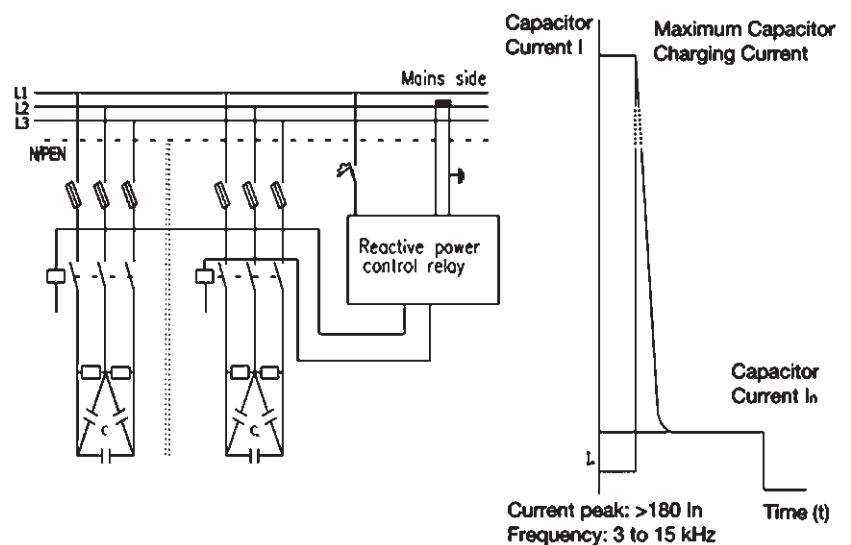
Selection & ordering data

Capacitor Duty Contactors

Capacitor kvar 440V, 3Ph, 50Hz	Built-in aux. contacts	Article No.	List price per PU (Per Unit)
5kVAr	1NO	3MT7000-5JA01-6AP2	2,120
	1NC	3MT7000-5JA10-6AP2	2,120
12.5kVAr	1NO+1NC	3MT7001-2JA11-6AP2	3,300
20kVAr	1NO+1NC	3MT7002-0JA11-6AP2	4,190
25kVAr	1NO+1NC	3MT7002-5JA11-6AP2	5,060
40kVAr	1NO+2NC	3MT7004-0JA12-6AP2	9,160
50kVAr	1NO+2NC	3MT7005-0JA12-6AP2	10,440
60kVAr	1NO+2NC	3MT7006-0JA12-6AP2	12,330
80kVAr	1NO+2NC	3MT7008-0JA12-6AU0	15,840
100kVAr	1NO+2NC	3MT7010-0JA12-6AU0	21,180

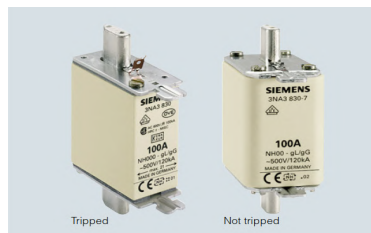
Operation

Siemens 3MT7 capacitor duty contactors are specially designed to meet stringent requirements of capacitor switching as deliberated above. These contactors are fitted with front-mounted block of 3 early make auxiliary contact in series with quick discharge damping six-resistors-2 per phase to limit peak current to value within contactor making capacity. The damping resistors are activated via early make auxiliary contacts before the main contacts close. During switching, after attenuation of the peak current, they are decoupled again.



Selection & ordering data

HRC Fuses



Overview

LV HRC fuse systems are used for installation systems in non-residential, commercial and industrial buildings as well as in switchboard assemblies of power utilities. They therefore protect essential building parts and systems.

The components and auxiliary equipment are designed in such a way as to ensure the safe replacement of LV HRC fuse systems or isolation of systems.

LV HRC fuse links are available in the sizes 000, 00, 0, 1, 2, 3, 4 and 4a.

Benefits

LV HRC fuse links with combination front indicator the tripping of a fuse. This enables identification and replacement of the tripped fuse links. This increases system availability.

LV HRC fuse links are always equipped with silver-plated contact pins. This means that they are non-corroding and have less contact resistance. This ensures the long-term operational safety of the plant.



HRC Fuse			
SIZE	Rating @500V	Ordercode MLFB	List price per PU (Per Unit)
000	50A	3NA3820	420
	63A	3NA3822	
	80A	3NA3824	
	100A	3NA3830	
00	125A	3NA3832	530
	160A	3NA3836	560
1	200A	3NA3140	1,190
	250A	3NA3144	

LV HRC fuse bases			
SIZE	Type	Ordercode MLFB	List price per PU (Per Unit)
000/00	1-pole terminal screw	3NH3030	2,289
	3-poles + 2 partitions	3NH4030	4,080
1	1-pole terminal screw	3NH3230	5,291
	3-poles	3NH3230 x 3	



LV HRC fuse bases			
SIZE	Type	Ordercode MLFB	List price per PU (Per Unit)
000 to 3	Fuse pullers	3NX1015	2,966

LV HRC fuse bases			
SIZE	Type	Ordercode MLFB	List price per PU (Per Unit)
000	fuse switch disconnectors	3NG1002	870
00		3NG1102	1,860
1		3NG1202	2,020

Support Request

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Use our online form for specific proposed solutions or send your technical question directly to a product specialist at Technical Support.
> Create support request
- Status of your requests**
Track the status of your Support request online. An overview of your request can be found here:
> Status of your requests

Click on **Support Request** to create a request or check the status of your request.



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Product search

About which product do you have a technical question?

Enter a product or an order number or click the search button

Find

Follow the instructions to complete your request.



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We are here to assist with questions from our valued customers and regions. For any additional technical queries or support, please contact us at techsupport.sinoplus.si@siemens.com.

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