





Selection and ordering data

Type	Design	For SIRIUS MSP Frame Size	Screw connection Order No.	List Price \$	Weight approx. kg
Auxiliary switches¹⁾					
3RV19 01-1E 	Transverse auxiliary switch²⁾ with screw connection	SPDT contact 1 NO + 1 NC 2 NO	S00, S0, S2, S3	3RV19 01-1D 3RV19 01-1E 3RV19 01-1F	0.02
3RV1901-1G 	Solid-state compatible, transverse auxiliary switch²⁾ with screw connection	SPDT contact	S00, S0, S2, S3	3RV19 01-1G	0.02
3RV1901-0H 	for use in dusty atmosphere and in electronic circuits with low operating currents				
3RV1901-1A 3RV1901-1J 	Covering caps for transverse auxiliary switches		S00, S0, S2, S3	3RV19 01-0H	Standard package quantity=10
	Lateral auxiliary switches with screw connection (Side Mount)	1 NO + 1 NC 2 NO 2 NC 2 NO + 2 NC	S00, S0, S2, S3	3RV19 01-1A 3RV19 01-1B 3RV19 01-1C 3RV19 01-1J	0.03 0.06
Signalling switch³⁾					
3RV19 21-1M 	Signaling switch (Side Mount)	Individual tripped and short-circuit signaling, 1 NO + 1 NC each	S0, S2, S3	3RV19 21-1M	0.07
Auxiliary releases⁴⁾					
3RV19 02-1DPO 	Undervoltage release (Side Mount)	DC 24 V	S00, S0, S2, S3	3RV19 02-1AB4	0.12
		AC 50 Hz 20-24 V 90-110 V — 210-230 V 400 V 350-415 V 500 V	— 120 V 208 V 240 V — 480 V —	3RV19 02-1AB0 3RV19 02-1AF0 3RV19 02-1AM1 3RV19 02-1AP0 3RV19 02-1AV0 3RV19 02-1AV1 3RV19 02-1AS0	0.12
3RV19 12-1CP0 	Undervoltage release with leading auxiliary contacts 2 NO (Side Mount)	230 V 400 V 415 V 230 V 400 V 415 V	240 V — 480 V 240 V — 480 V	3RV19 12-1CP0 3RV19 12-1CV0 3RV19 12-1CV1 3RV19 22-1CP0 3RV19 22-1CV0 3RV19 22-1CV1	0.11
	Shunt release (Side Mount)	AC 50/60 Hz 100% ON⁵⁾ 20- 24 V 90-110 V 200-240 V 350-415 V 500 V	AC 50/60 Hz; DC 5 sec ON⁶⁾ 20- 70 V 70-190 V 190-330 V 330-500 V 500 V	3RV19 02-1DB0 3RV19 02-1DF0 3RV19 02-1DP0 3RV19 02-1DV0 3RV19 02-1DS0	0.11

Terminals for "Combination Motor Controller Type E" to UL 508




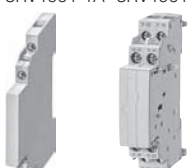



3RV19 28-1H 	Note: As of July 2001, UL 508 demands for "Combination Motor Controller Type E" 1" air gaps and 2" creepage distances at line-side. The following terminal blocks must be used in S0 and S3 MSP's 3RV10. The S2 MSP 3RV10 conforms with stipulated air gaps and creepage distances without terminal block. Terminal blocks are not required for use according to CSA. With size S0 these terminal blocks cannot be used in combination with 3-phase busbars 3RV19.5. This also applies to size S3 in combination with transverse auxiliary switches.				
3RT19 46-4GA07 	Terminal block type E	for extended air/creepage distance (1" and 2")	S0 S3	3RV19 28-1H 3RT19 46-4GA07	0.12 0.12

- Each MSP can be fitted with one transverse and one lateral auxiliary switch. The lateral auxiliary switch with 2 NO + 2 NC is used without transverse auxiliary switch.
- Compatible with the following MSP's:
3RV1. 1 (size S00) as of version E01
3RV1. 2 (size S0) as of version E04
3RV1. 3 (size S2) as of version E04
3RV1. 4 (size S3) as of version E04.



- One signaling switch can be mounted at the left of each MSP.
- One auxiliary release can be mounted at the right side of each MSP.
- The response voltage at the lower limit of the voltage range at 0.85 (Tu = 60 °C) is valid for 100 % (infinite) duty cycle only at AC 50/60 Hz.
- The response voltage at the lower limit of the voltage range at 0.9 (Tu = 60 °C) applies for a duty cycle of 5 seconds at AC 50/60 Hz and DC.



Selection and ordering data

Type	Design	For SIRIUS MSP Frame Size	Screw connection Order No.	List Price \$	Weight approx. kg
Auxiliary switches¹⁾					
3RV19 01-1E 	Transverse auxiliary switch²⁾ with screw connection	SPDT contact 1 NO + 1 NC 2 NO	S00, S0, S2, S3	3RV19 01-1D 3RV19 01-1E 3RV19 01-1F	0.02
3RV1901-1G 	Solid-state compatible, transverse auxiliary switch²⁾ with screw connection	SPDT contact	S00, S0, S2, S3	3RV19 01-1G	0.02
3RV1901-0H 	for use in dusty atmosphere and in electronic circuits with low operating currents				
3RV1901-1A 3RV1901-1J 	Covering caps for transverse auxiliary switches		S00, S0, S2, S3	3RV19 01-0H Standard package quantity=10	
	Lateral auxiliary switches with screw connection (Side Mount)	1 NO + 1 NC 2 NO 2 NC 2 NO + 2 NC	S00, S0, S2, S3	3RV19 01-1A 3RV19 01-1B 3RV19 01-1C 3RV19 01-1J	0.03 0.06
Signalling switch³⁾					
3RV19 21-1M 	Signaling switch (Side Mount)	Individual tripped and short-circuit signaling, 1 NO + 1 NC each	S0, S2, S3	3RV19 21-1M	0.07
Auxiliary releases⁴⁾					
3RV19 02-1DPO 	Undervoltage release (Side Mount)	DC 24 V	S00, S0, S2, S3	3RV19 02-1AB4	0.12
		AC 50 Hz 20-24 V 90-110 V — 210-230 V 400 V 350-415 V 500 V	— 120 V 208 V 240 V — 480 V —	3RV19 02-1AB0 3RV19 02-1AF0 3RV19 02-1AM1 3RV19 02-1AP0 3RV19 02-1AV0 3RV19 02-1AV1 3RV19 02-1AS0	0.12
3RV19 12-1CP0 	Undervoltage release with leading auxiliary contacts 2 NO (Side Mount)	230 V 400 V 415 V 230 V 400 V 415 V	240 V — 480 V 240 V — 480 V	3RV19 12-1CP0 3RV19 12-1CV0 3RV19 12-1CV1 3RV19 22-1CP0 3RV19 22-1CV0 3RV19 22-1CV1	0.11
	Shunt release (Side Mount)	AC 50/60 Hz 100% ON⁵⁾ 20–24 V 90–110 V 200–240 V 350–415 V 500 V	AC 50/60 Hz; DC 5 sec ON⁶⁾ 20–70 V 70–190 V 190–330 V 330–500 V 500 V	3RV19 02-1DB0 3RV19 02-1DF0 3RV19 02-1DP0 3RV19 02-1DV0 3RV19 02-1DS0	0.11

Terminals for "Combination Motor Controller Type E" to UL 508

3RV19 28-1H 	Note: As of July 2001, UL 508 demands for "Combination Motor Controller Type E" 1" air gaps and 2" creepage distances at line-side. The following terminal blocks must be used in S0 and S3 MSP's 3RV10. The S2 MSP 3RV10 conforms with stipulated air gaps and creepage distances without terminal block. Terminal blocks are not required for use according to CSA. With size S0 these terminal blocks cannot be used in combination with 3-phase busbars 3RV19.5. This also applies to size S3 in combination with transverse auxiliary switches.				
3RT19 46-4GA07 	Terminal block type E	for extended air/creepage distance (1" and 2")	S0 S3	3RV19 28-1H 3RT19 46-4GA07	0.12 0.12

- Each MSP can be fitted with one transverse and one lateral auxiliary switch. The lateral auxiliary switch with 2 NO + 2 NC is used without transverse auxiliary switch.
- Compatible with the following MSP's:
3RV1. 1 (size S00) as of version E01
3RV1. 2 (size S0) as of version E04
3RV1. 3 (size S2) as of version E04
3RV1. 4 (size S3) as of version E04.

- One signaling switch can be mounted at the left of each MSP.
- One auxiliary release can be mounted at the right side of each MSP.
- The response voltage at the lower limit of the voltage range at 0.85 (Tu = 60 °C) is valid for 100 % (infinite) duty cycle only at AC 50/60 Hz.
- The response voltage at the lower limit of the voltage range at 0.9 (Tu = 60 °C) applies for a duty cycle of 5 seconds at AC 50/60 Hz and DC.

3RV1 Motor Starter Protectors






Busbar Accessories

SIRIUS



Accessories for Busbar

Selection and ordering data

Modular spacing	Number of motor starter protectors that can be connected			Rated current I_n at 690 V	For motor starter protectors Size	Order No.	List Price \$	PU (UNIT, SET, M)	PS	Weight per PU approx.
	Without lateral accessories	Incl. lateral auxiliary switch	With auxiliary trip unit							
mm				A						kg
Three-phase busbar systems										
For feeding several motor starter protectors with screw terminals, mounted side-by-side on standard mounting rails, insulated, with touch protection.										
 3RV19 15-1AB	45	2	--	63	S00, S0 ¹⁽²⁾	3RV19 15-1AB		1	1 unit	0.044
		3			S00, S0 ¹⁽²⁾					
		4			S00, S0 ¹⁽²⁾					
		5			S00, S0 ¹⁽²⁾					
 3RV19 15-1BB	55	--	2	63	S00, S0 ¹⁽²⁾	3RV19 15-2AB		1	1 unit	0.048
			3		S00, S0 ¹⁽²⁾					
			4		S00, S0 ¹⁽²⁾					
			5		S00, S0 ¹⁽²⁾					
 3RV19 15-1CB	63	--	--	63	S00, S0 ¹⁽²⁾	3RV19 15-3AB		1	1 unit	0.052
			2		S00, S0 ¹⁽²⁾					
			4		S00, S0 ¹⁽²⁾					
					S00, S0 ¹⁽²⁾					
 3RV19 15-1DB	55	2	--	108	S2	3RV19 35-1A		1	1 unit	0.150
		3			S2					
		4			S2					
					S2					
 3RV19 15-1DB	75	--	2	108	S2 ³⁾	3RV19 35-3A		1	1 unit	0.161
			3		S2 ³⁾					
			4		S2 ³⁾					
					S2 ³⁾					


1) Not suitable for 3RV11 motor starter protectors with overload relay function. Common clamping of S00 and S0 motor starter protectors is not possible, due to the different modular spacings and terminal heights. The 3RV19 15-DB connecting piece is available for connecting busbars from size S0 to size S00.

2) Not suitable for 3RV17 and 3RV18 circuit breakers.

3) Auxiliary trip units and lateral auxiliary switches cannot be used in combination.



Version	Modular spacing	For motor starter protectors Size	Order No.	List Price \$	PU (UNIT, SET, M)	PS*	Weight per PU approx.
	mm						kg

Connecting pieces for three-phase busbars

 3RV19 15-5DB	For connecting three-phase busbars for motor starter protectors of size S0 (left) to size S00 (right)	45	S00, S0	3RV19 15-5DB	1	1 unit	0.042

Conductor cross-section	Finely stranded with end sleeve	AWG cables, solid or stranded	Tightening torque	For motor starter protectors Size	Order No.	List Price \$	PU (UNIT, SET, M)	PS*	Weight per PU approx.
mm ²	mm ²	AWG	Nm						kg

Three-phase feeder terminals

	Connection from top					3RV19 15-5A 3RV19 25-5AB	1	1 unit	0.040 0.041
	2.5 ... 25	4 ... 16	12-4	4	S00 S0				
	Connection from below¹⁾								
	2.5 ... 25	4 ... 16	12-4	Input: 4, Output: 2 ... 2.5	S00, S0	3RV19 15-5B	1	1 unit	0.110
	Connection from top								
	2.5 ... 50	1.5 ... 35	14-0	4	S2	3RV19 35-5A			

Three-phase feeder terminals for constructing "Type E Starters"

Connection from top										
2.5 ... 25	4 ... 16	10-4	2-4	S0	3RV19 25-5EB	1	1 unit	0.055		
10 ... 50	--	8-0	4.5-6	S2	3RV19 35-5E	1	1 unit	0.100		

1) This terminal is connected in place of a switch, please take the space requirement into account.

3RV1 Motor Starter Protectors





Accessories

SIRIUS








Enclosures and front plates

Selection and ordering data

Type	Design	For SIRIUS MSP size	Order No.	List Price \$	Weight approx. kg
Front plates					
3RV19 13-4C 	Moulded-plastic front plate with actuator diaphragm and holder for MSP, size S00	For actuating MSP of size S00 in any enclosure, includes holder for switches, degree of protection IP 55 (at the front)	S00	3RV19 13-4C	0.08
3RV19 23-4B + 3RV19 23-4G 	Moulded-plastic front plate with rotary operating mechanism, lockable	For actuation of 3RV1 MSP's in any enclosure, degree of protection IP 55 (front plate)	S0, S2, S3	3RV19 23-4B	0.08
	Moulded-plastic front plate with EMERGENCY STOP rotary operating mechanism , red/yellow, lockable	EMERGENCY-STOP operation of 3RV1 MSP's in any enclosure, degree of protection IP 55	S0, S2, S3	3RV19 23-4E	0.08
	Holder for front plate for MSP size S0	Holder is mounted on front plate, MSP size S0 with or without accessories is snapped in	S0	3RV19 23-4G	0.12
Accessories for enclosures					
Moulded-plastic enclosure for wall mounting with 3RV19 13-7D 	EMERGENCY STOP mushroom button, red/yellow for enclosures and front plates 3RV19 13-...	Mushroom button, latching, unlatching by turning	S00	3RV19 13-7D	0.07
	EMERGENCY STOP mushroom button, red/yellow, with safety lock for enclosures and front plates 3RV19 13-... Not to be used together with locking device	Mushroom button, latching, unlatch with key, Ronis safety lock, Lock No. SB 30, 2 keys included	S00	3RV19 13-7E	0.10
	Locking device for enclosures and front plates 3RV19 13-... Not to be used together with EMERGENCY STOP handles	For 3 padlocks with max. 8 mm shackle diameter	S00	3RV19 13-6B	0.02
3RV19 03-5B 	Indicator light for all enclosures and front plates	With glow lamp and coloured lenses 110–120 V 220–240 V 380–415 V 480–500 V red, green, yellow, orange and clear	S00, S0, S2 S00, S0, S2 S00, S0, S2 S00, S0, S2	3RV19 03-5B 3RV19 03-5C 3RV19 03-5E 3RV19 03-5G	0.03
	Spare actuator diaphragm	Installation kit: Diaphragm, includes holder frame and screws	S00	3RV19 13-7F	0.01



Selection and ordering data

Type	Design	For SIRIUS MSP size	Order No.	List Price \$	Weight approx. kg	
Enclosure for wall mounting						
	Molded-plastic enclosure for wall mounting with actuator diaphragm, metric cable gland	Degree of protection IP55, with N and PE terminals Overall width:				
		54 mm (e.g. MSP + lateral auxiliary switch)	S00	3RV19 13-1CA00	0.23	
		72 mm (e.g. MSP + lateral auxiliary switch + auxiliary release)	S00	3RV19 13-1DA00	0.27	
	Molded-plastic enclosure for wall mounting with rotary operating mechanism, lockable, with metric cable gland	Degree of protection IP 55, with N and PE terminals, lockable in 0 position Overall width:				
		54 mm (e.g. MSP + lateral auxiliary switch)	S0	3RV19 23-1CA00	0.26	
		72 mm (e.g. MSP + auxiliary switch + auxiliary release)	S0	3RV19 23-1DA00	0.30	
	82 mm (e.g. MSP + auxiliary switch + auxiliary release)	S2	3RV19 33-1DA00	0.81		
		Molded-plastic enclosure for wall mounting with EMERGENCY STOP rotary operating mechanism red/yellow, lockable, with metric cable gland	Degree of protection IP 55, with N and PE terminals, lockable in 0 position Overall width:			
			54 mm (e.g. MSP + lateral auxiliary switch)	S0	3RV19 23-1FA00	0.26
	72 mm (e.g. MSP + auxiliary switch + auxiliary release)		S0	3RV19 23-1GA00	0.30	
	82 mm (e.g. MSP + auxiliary switch + auxiliary release)	S2	3RV19 33-1GA00	0.81		
		Cast aluminum surface-mount enclosure with rotary operating mechanism, lockable, with metric cable gland	Degree of protection IP 65, with PE terminals, ¹⁾ lockable in 0 position Overall width:			
72 mm (e.g. MSP + auxiliary switch + auxiliary release)			S0	3RV19 23-1DA01	0.97	
Cast aluminum surface-mount enclosure with EMERGENCY-OFF rotary operating mechanism red/yellow, lockable, with metric cable gland		Degree of protection IP 65, with PE terminals, ¹⁾ lockable in 0 position Overall width:				
	72 mm (e.g. MSP + auxiliary switch + auxiliary release)	S0	3RV19 23-1GA01	0.97		
Enclosure for flush mounting						
	Molded-plastic enclosure for flush mounting with actuator diaphragm with metric cable gland	Degree of protection IP 55 (front plate), with N and PE terminals Overall width:	S00	3RV19 13-2DA00	0.32	
		72 mm (e.g. MSP + lateral auxiliary switch + auxiliary release)				
	Molded-plastic enclosure for flush mounting with rotary operating mechanism, lockable, with metric cable gland	Degree of protection IP 55, with N and PE terminals, lockable in 0 position Overall width:	S0	3RV19 23-2DA00	0.31	
		72 mm (e.g. MSP + auxiliary switch + auxiliary release)				
	Molded-plastic enclosure for flush mounting with EMERGENCY STOP rotary operating mechanism, red/yellow, lockable, with metric cable gland	Degree of protection IP 55, with N and PE terminals, lockable in 0 position Overall width: 72 mm (e.g. MSP + auxiliary switch + auxiliary release)	S0	3RV19 23-2GA00	0.31	

1) If required, an additional N terminal can be mounted (example 8WA10 11-1BG11).