

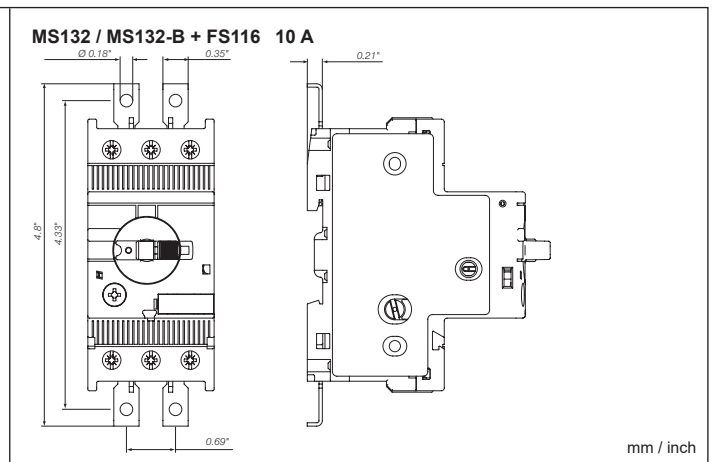
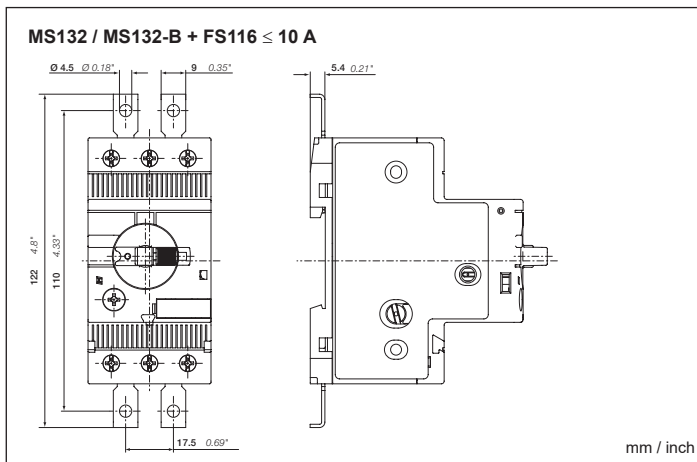
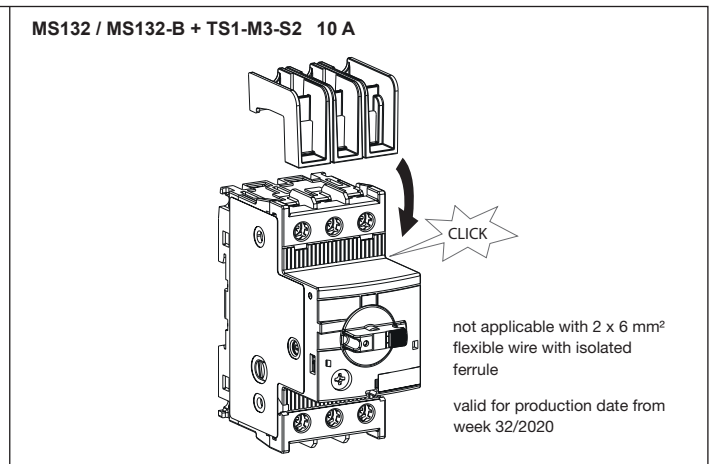
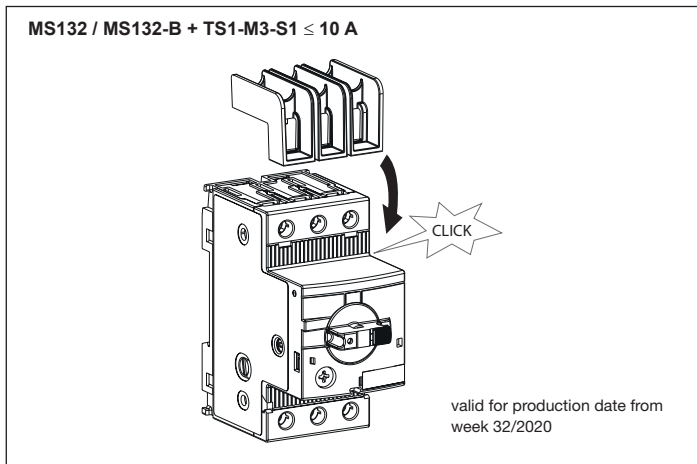
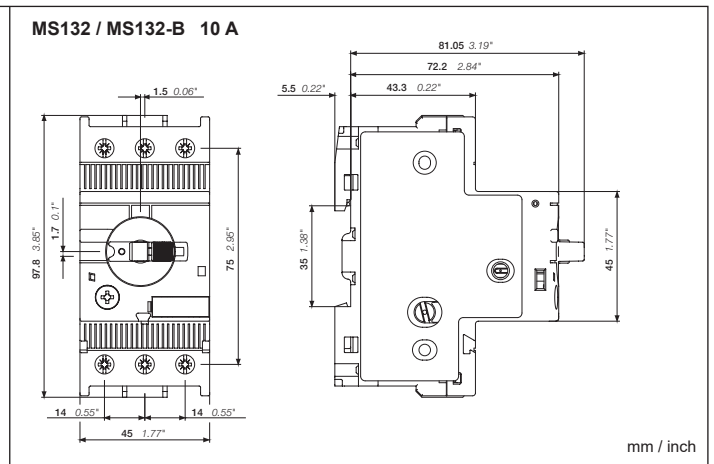
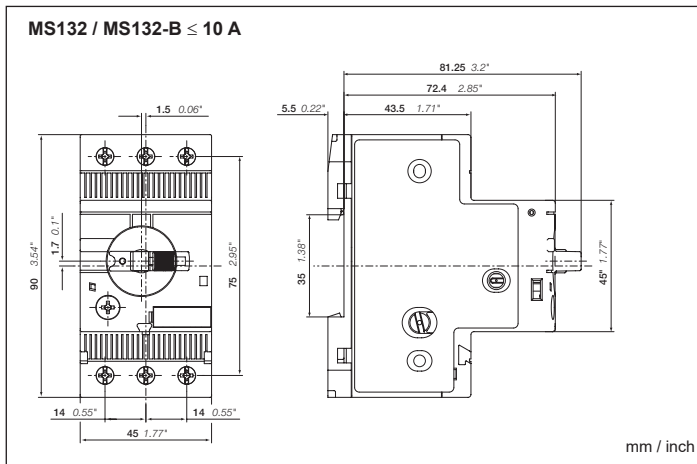
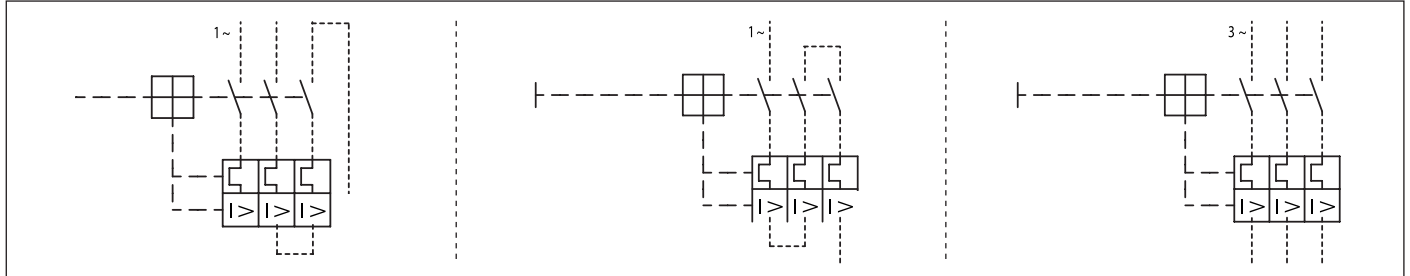
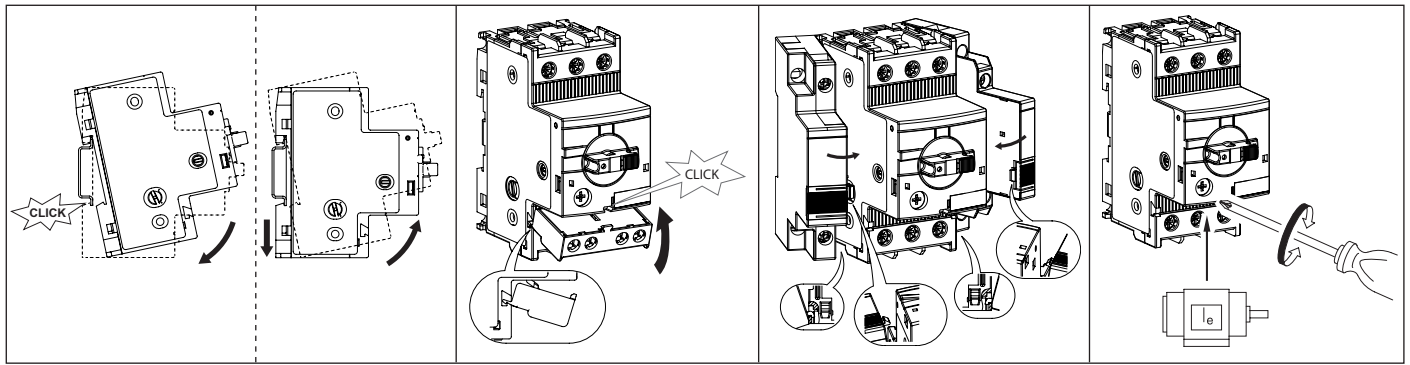
en Installation instructions de Montageanweisung es Instrucciones de montaje fr Notice de montage it Istruzioni di montaggio sv Installation och skötsel cn 安装说明书 ru Инструкция по монтажу ar إرشادات التثبيت	Manual Motor Starter MS132 / MS132-B Motorschutzeschalter MS132 / MS132-B Guardamotor MS132 / MS132-B Disjoncteur-moteur MS132 / MS132-B Salvatore MS132 / MS132-B Handmanövrerad Motorskyddsbrytare MS132 / MS132-B 电动机保护用断路器 MS132 / MS132-B Автомат защиты электродвигателя MS132 / MS132-B بادئ يدوي لحركة المحرك MS132 / MS132-B	
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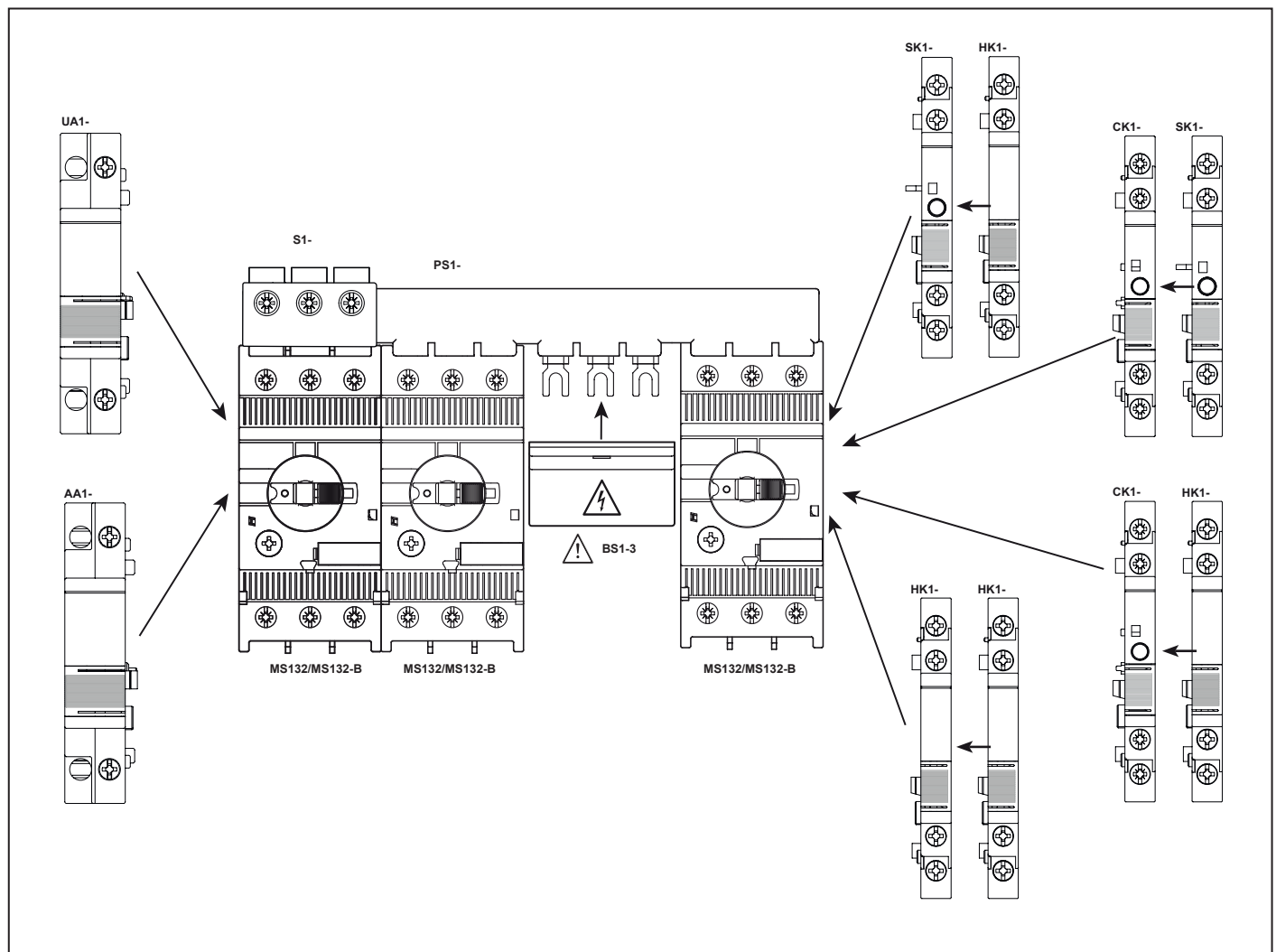
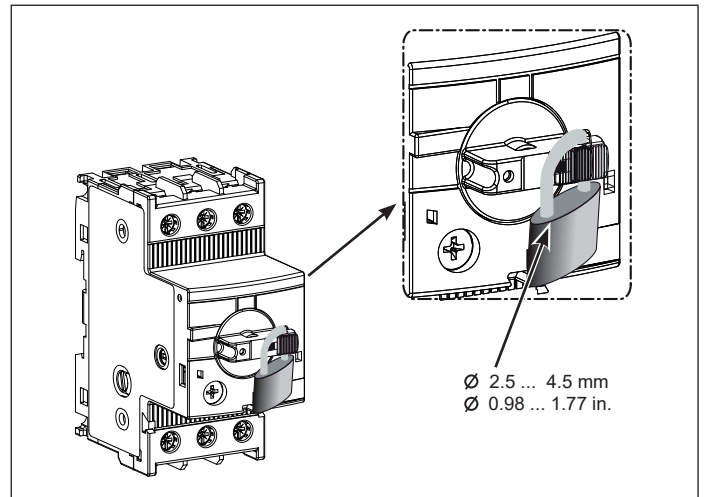
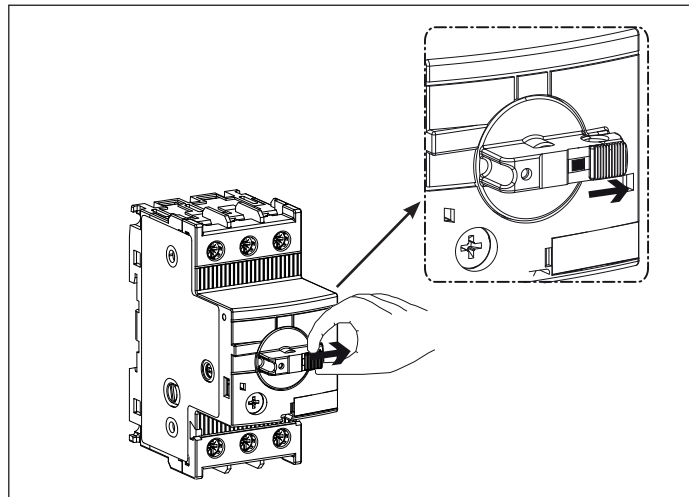
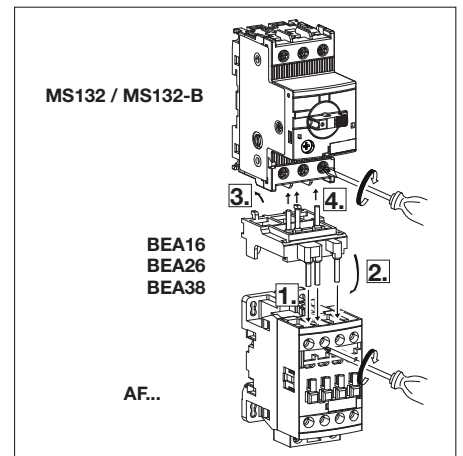
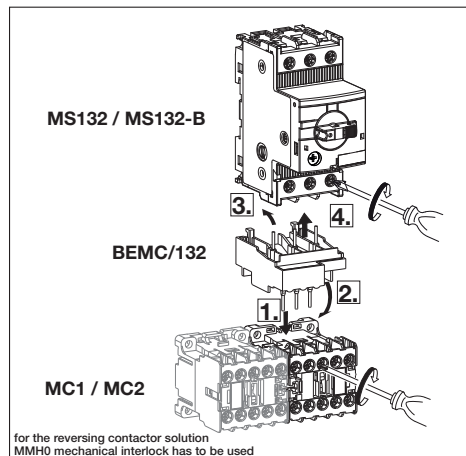
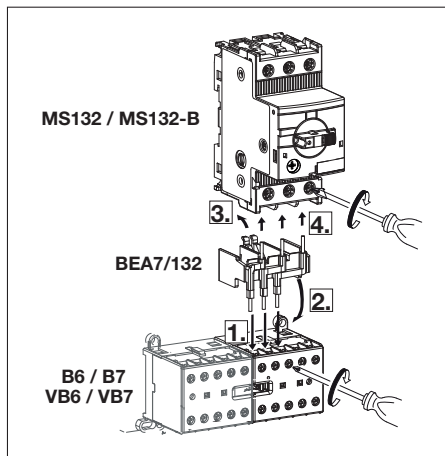
ABB STOTZ-KONTAKT GmbH
Eppelheimer Str. 82
69123 Heidelberg
Germany
<http://www.abb.com/lowvoltage>

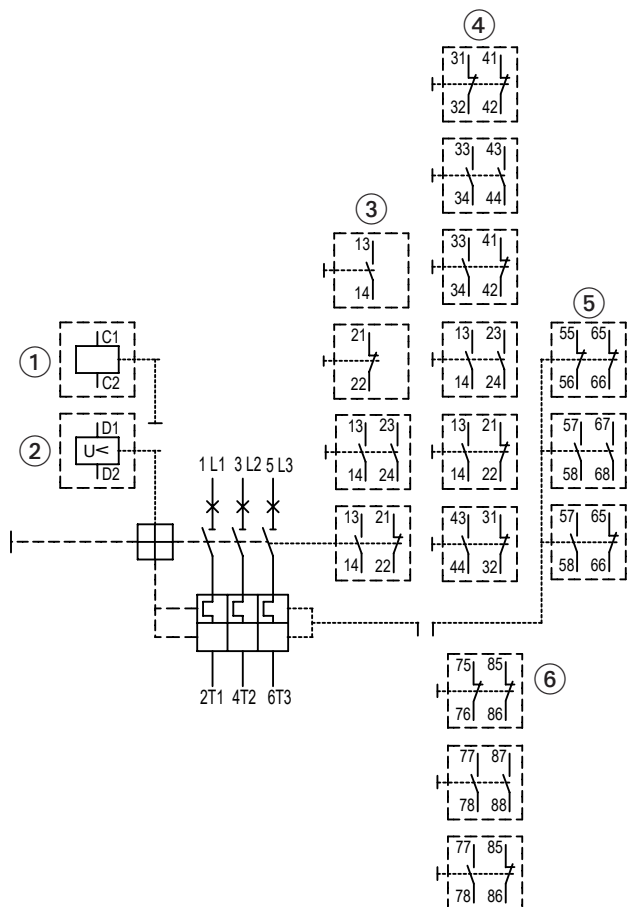
ABB



							
MS132 / MS132-B ≤ 10 A	M3.5 0.8 ... 1.2 Nm / 10 ... 12 lb-in	Ø 5.5 mm	Pozidriv No. 2	1/2 x 1 ... 4 mm²	1/2 x 0.75 ... 2.5 mm² 1/2 x AWG 16 ... 12	1/2 x 0.75 ... 2.5 mm²	9 mm
MS132 / MS132-B ≥ 12 A	M4 2 Nm / 18 lb-in	Ø 6.5 mm		1/2 x (1 ... 2.5) (2.5 ... 6) mm²	1/2 x (1 ... 2.5) (2.5 ... 6) mm² 1/2 x AWG 16 ... 8	1/2 x 0.75 ... 6 mm²	10 mm
SK1, HK1, CK1, HKF1	M3.5 0.8 ... 1.2 Nm / 7 lb-in	Ø 5.5 mm		1/2 x 1 ... 1.5 mm²	1/2 x 0.75 ... 1.5 mm² 1/2 x AWG 16 ... 14	1/2 x 0.75 ... 1.5 mm²	8 mm
UA1, AA1	M3.5 0.8 ... 1.2 Nm / 7 lb-in	Ø 5.5 mm		1/2 x 1 ... 4 mm²	1/2 x 0.75 ... 2.5 mm² 1/2 x AWG 16 ... 14	1/2 x 0.75 ... 2.5 mm²	
S1-Mx-25	M3.5 2.5 Nm / 22 lb.in	Ø 5.5 mm		1 x 2.5 ... 25 mm² 1 x AWG 14 ... 8	1 x 2.5 ... 16 mm² 1 x AWG 14 ... 4	1 x 2.5 ... 16 mm²	10 mm
S1-Mx-35	M8 4.5 Nm / 40 lb.in		Hexagon 4	1 x 10 ... 35 mm² 1 x AWG 8 ... 2	1 x 10 ... 35 mm² 1 x AWG 8 ... 2	1 x 10 ... 35 mm²	12 mm







- ① AA1-
- ② UA1-
- ③ HKF1-
- ④ HK1-
- ⑤ SK1-
- ⑥ CK1-

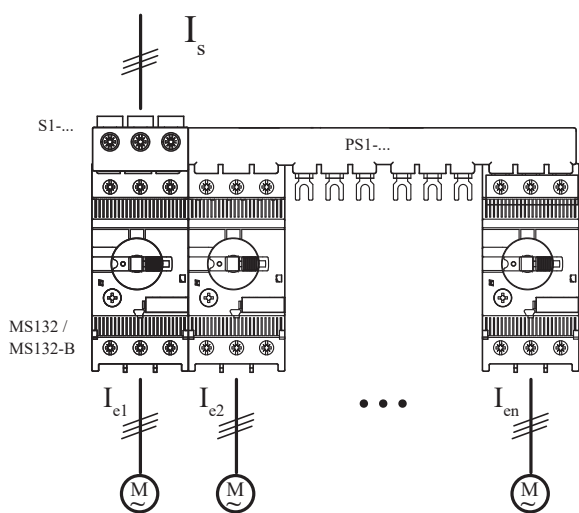
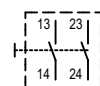
⚠ Same terminal markings for:

HK1-20A

HKF1-20

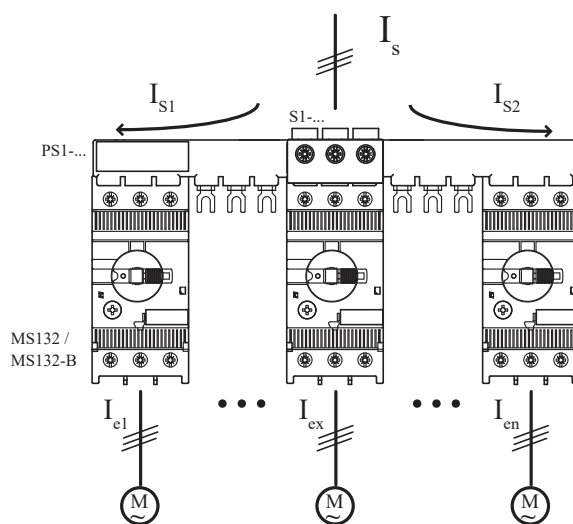
HK1-11A

HKF1-11



$$I_{e,S1-...} \geq I_S = \sum_{i=1}^n I_{ei} = I_{e1} + \dots + I_{en} !$$

$$I_{e,PS1-...} \geq I_S = \sum_{i=1}^n I_{ei} = I_{e1} + \dots + I_{en} !$$



$$I_{e,S1-...} \geq I_S = I_{S1} + I_{S2} = \sum_{i=1}^n I_{ei} = I_{e1} + \dots + I_{en} !$$

$$I_{e,PS1-...} \geq I_S = I_{S1} + I_{S2} = \sum_{i=1}^n I_{ei} = I_{e1} + \dots + I_{en} !$$

	S1-M1-25	S1-M2-25	S1-M3-25	S1-M3-35	BS1-3
PS1- ... -65	x	x	x ¹⁾	x ¹⁾	x
PS1- ... -100	x	-	x ¹⁾	x ¹⁾	x

¹⁾ Combination Motor Controller Type E / F



WARNING

When an overload or a fault current interruption occurs, circuits must be checked to determine the cause of the interruption. When a fault condition exists, the current-carrying components should be examined and replaced when damaged, and the integral current sensors must be replaced to reduce the risk of fire or electric shock. To maintain overcurrent, short-circuit, and ground-fault protection, the manufacturer's instructions for selection of overload and short-circuit protection must be followed to reduce the risk of fire or electric shock.

Suitable for installation in an enclosure with minimum dimensions of 180 x 120 x 165 mm

AVERTISSEMENT

En cas d'intervention due à une surcharge ou un courant de défaut, les circuits doivent être vérifiés pour déterminer la cause de l'interruption. En condition de défaut, les composants porteurs de courant devraient être examinés et remplacés au besoin, et les capteurs de courant intégrés doivent être remplacés afin de réduire le risque d'incendie et ou de choc électrique. Pour assurer une protection continue contre les surintensités, les courts-circuits et les fuites à la terre, les instructions du fabricant relatives à la sélection d'une protection contre la surcharge et les courts-circuits doivent être respectées afin de réduire le risque d'incendie et ou de choc électrique.

Convient pour l'installation dans un coffret de minimum dimensions of 180 x 120 x 165 mm



When used with PS1-xx-65 or PS1-xx-100 busbars, suitable for installation in an enclosure with minimum dimensions:

Si utilisé avec un peigne PS1-xx-65 or PS1-xx-100, convient pour l'installation dans un coffret de dimensions minimum:

Type	Height (mm)	Width (mm)	Depth (mm)
PS1-2-0-65	220	135	205
PS1-3-0-65	220	203	205
PS1-4-0-65	220	270	205
PS1-5-0-65	220	338	205
PS1-2-1-65	220	162	205
PS1-3-1-65	220	243	205
PS1-4-1-65	220	324	205
PS1-5-1-65	220	340	205
PS1-2-2-65	220	189	205
PS1-3-2-65	220	284	205
PS1-4-2-65	220	378	205
PS1-5-2-65	220	472	205
PS1-3-0-100	220	203	205
PS1-3-0-100	220	270	205
PS1-3-0-100	220	338	205
PS1-3-1-100	220	243	205
PS1-4-1-100	220	324	205
PS1-5-1-100	220	340	205
PS1-3-2-100	220	284	205

“Manual self-protected combination motor controller (Type E)” or “Combination motor controller Type F, when used with AF contactor series and (optional) overload relays EF or TF series and optional connector BEAxx”

Manual Self-Protected Combination Motor Controller (“Type E”)¹⁾ Max. Short Circuit Current Rating [kA]		
Type	480Y/277V [kA]	600Y/347V [kA]
MS132-0.16 (B)	65	47
MS132-0.25 (B)	65	47
MS132-0.40 (B)	65	47
MS132-0.63 (B)	65	47
MS132-1.0 (B)	65	47
MS132-1.6 (B)	65	47
MS132-2.5 (B)	65	47
MS132-4.0 (B)	65	47
MS132-6.3 (B)	65	18
MS132-10 (B)	65	18
MS132-12 (B)	30	–
MS132-16 (B)	30	–
MS132-20 (B)	30	–
MS132-25 (B)	30	–
MS132-32 (B)	30	–

Combination Motor Controller Type F¹⁾ Type 2 Coordination				
Type	480Y/277V [kA]	Minimum contactor size	600Y/347V [kA]	Minimum contactor size
MS132-0.16 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-0.25 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-0.40 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-0.63 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-1.0 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-1.6 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-2.5 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-4.0 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-6.3 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-10 (B)	65	AF26 ... AF38	47	AF26 ... AF38
MS132-12 (B)	30	AF26 ... AF38	–	AF26 ... AF38
MS132-16 (B)	30	AF26 ... AF38	–	AF26 ... AF38
MS132-20 (B)	30	AF26 ... AF38	–	AF26 ... AF38
MS132-25 (B)	30	AF26 ... AF38	–	AF26 ... AF38
MS132-32 (B)	30	AF26 ... AF38	–	AF26 ... AF38

Combination Motor Controller Type F¹⁾ Type 1 Coordination				
Type	480Y/277V [kA]	Minimum contactor size	600Y/347V [kA]	Minimum contactor size
MS132-0.16 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-0.25 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-0.40 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-0.63 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-1.0 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-1.6 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-2.5 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-4.0 (B)	100	AF09 ... AF38	50	AF09 ... AF38
MS132-6.3 (B)	100	AF09 ... AF38	47	AF09 ... AF38
MS132-10 (B)	100	AF09 ... AF38	30	AF09 ... AF38
MS132-12 (B)	65	AF09 ... AF38	30	AF09 ... AF38
MS132-16 (B)	65	AF26 ... AF38	30	AF26 ... AF38
MS132-20 (B)	65	AF26 ... AF38	–	AF26 ... AF38
MS132-25 (B)	50	AF26 ... AF38	–	AF26 ... AF38
MS132-32 (B)	50	AF38	–	AF38

¹⁾ MS132/ MS132-B in combination with feeder block S1-M3-xx or terminal spacer TS1-M3-S1 (for 0,16...10)/ TS1-M3-S2 (for 12...32)