

PRODUCT-DETAILS

MO165-54

MO165-54 Manual Motor Starter Magnetic Only



Informações gerais

Tipo de produto alargado	MO165-54
ID do produto	1SAM461000R1016
EAN	4013614486173
Descrição do catálogo	MO165-54 Manual Motor Starter Magnetic Only

Descrição longa

The MO165 manual motor starter magnetic only is a compact and powerful range for motor protection up to 45 kW (400 V) in width of 55 mm. The devices are used to manually switch on and off loads/motors and to protect them reliably and without the need for a fuse from short-circuits. The manual motor starter offers a rated service short-circuit breaking capacity up to 100 kA at 400 V AC. A combination together with overload relays or motor controllers allows the protection of motors. Further features are the built-in disconnect function, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starters magnetic only are suitable for three- and single-phase applications. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, 3-phase bus bars and power in-feed blocks are available as accessory.

Ordering

Quantidade Mínima de Encomenda	1 piece
Número de tarifa aduaneira	85362010

Popular Downloads

Ficha de dados,	2CDC131084D0201
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informação técnica

Instruções e Manuais	2CDC131082M6801
Instruções e Manuais (Parte 2)	2CDC131060M0202
Time-Current Characteristic Curve	1SAM400515F0001
I ² t Characteristic	1SAM400506F0001
Cut-off Current Characteristic	1SAM400507F0001
Diagrama de medidas	1SAM400402F0001

Dimensions

Largura Líquida do Produto	55 mm
Altura Líquida do Produto	142.65 mm
Profundidade/Comprimento Líquidos do Produto	122.1 mm
Peso Líquido do Produto	0.97 kg

Technical

Rated Service Short-Circuit Breaking Capacity (I _{cs})	(230 V AC) 30 kA (250 V DC) 3 Poles in Series 100 kA (400 V AC) 30 kA (440 V AC) 30 kA (500 V AC) 20 kA (690 V AC) 6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	(230 V AC) 50 kA (250 V DC) 100 kA (400 V AC) 50 kA (440 V AC) 45 kA (500 V AC) 20 kA (690 V AC) 8 kA
Rated Instantaneous Short-Circuit Current Setting (I _i)	810 A
Setting Range	None
Rated Operational Power AC-3 (P _e)	(400 V) Three Phase 22 kW
Rated Operational Power AC-3e (P _e)	(400 V) Three Phase 22 kW
Tensão operacional nominal	Main Circuit 690 V AC Main Circuit 250 V DC
Corrente operacional nominal (I _e)	54 A
Rated Operational Current AC-3 (I _e)	54 A
Rated Operational Current AC-3e (I _e)	54 A
Rated Operational Current DC-5 (I _e)	54 A
Frequência nominal (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 kV
Rated Insulation Voltage (U _i)	1000 V
Power Loss	7 W
Número de polos	3
Conventional Free-air	Main Circuit 54 A

Thermal Current (I_{th})	
Grau de proteção	Housing IP20 Main Circuit Terminals IP10
Pollution Degree	3
Electrical Durability	25000 cycle
Mechanical Durability	50000 cycle
Tipo de terminal	Screw Terminals
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 1 ... 35 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 35 mm ² Flexible 1/2x 1 ... 35 mm ² Rigid 1/2x 1 ... 4 mm ² Solid 1/2x 1 ... 4 mm ² Stranded 1/2x 1 ... 50 mm ²
Binário de aperto	Main Circuit 4 N·m
Wire Stripping Length	Main Circuit 16 mm
Recommended Screw Driver	Pozidriv 2
Posição de montagem	1 ... 6
Montagem na calha DIN	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Minimum Mounting Distance	Electrical Conductive Board, Horizontal - Up to 1000 V 1.5 mm Electrical Conductive Board, Horizontal - Up to 400 V 0 mm Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm Electrical Conductive Board, Vertical 75 mm Other Device Same Type, Horizontal 0 mm Other Device Same Type, Vertical 150 mm
Actuator Type	Rotary Handle
Contact Position Indication	ON / OFF / TRIP
Normas	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-4-1
Observações	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used

Technical UL/CSA

Short-Circuit Current Rating (SCCR)	Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC) 65 kA Manual Self-Protected Combination Controllers (Type E), (600Y / 347 V AC) 30 kA Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 65 kA Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 30 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 65 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 30 kA Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480Y / 277 V AC) 65 kA Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC) 30 kA
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Classificação de potência UL/CSA	(200 V AC) Three Phase 15 Hp (208 V AC) Three Phase 15 Hp (220 ... 240 V AC) Three Phase 20 Hp (440 ... 480 V AC) Three Phase 40 Hp (550 ... 600 V AC) Three Phase 50 Hp
Full Load Amps Motor Use	(200 V AC) Three Phase 48.3 A (208 V AC) Three Phase 46.2 A (220 ... 240 V AC) Three Phase 54 A (440 ... 480 V AC) Three Phase 52 A (550 ... 600 V AC) Three Phase 52 A

Locked Rotor Amps

(200 V AC) Three Phase 267 A
 (208 V AC) Three Phase 257 A
 (220 ... 240 V AC) Three Phase 290 A
 (440 ... 480 V AC) Three Phase 290 A
 (550 ... 600 V AC) Three Phase 290 A

General Use Rating UL/CSA	(600 V AC) 54 A
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-0 AWG Stranded 1/2x 16-0 AWG
Tightening Torque UL/CSA	Main Circuit 35 in-lb

Environmental

Temperatura do ar ambiente	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	No
Altitude de operação máxima permissível	2000 m
Resistência ao Choque de acordo com IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6	5g / 3 ... 150 Hz
Estado RoHS	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

Certificado ABS	1SAA963002-0101
Certificado BV	1SAA963002-0201
CB Certificate	1SAA918002-2002
CQC Certificate	CQC2015010307760141
Certificado cUL	cUL_E345003 cUL_E137861
Cut-off Current Characteristic	1SAM400507F0001
Declaration of Conformity - CCC	2020980307003042
Declaração de conformidade - CE	1SAD101100-3409
Declaration of Conformity - UKCA	1SAD201100-3409
DNV GL Certificate	1SAA963002-0301
EAC Certificate	1SAA963000-2701
Informação ambiental	1SAC200051H0009
I ² t Characteristic	1SAM400506F0001
IECEX Certificate	1SAA918000-4001
Instruções e Manuais	2CDC131082M6801
Instruções e Manuais (Parte 2)	2CDC131060M0202
Certificado LR	1SAA918001-0501
Certificado RMRS	1SAA918000-0704
Informação RoHS	1SAD938504-0191
Time-Current Characteristic Curve	1SAM400515F0001
Certificado UL	UL_E137861 UL_345003

Container Information

Unidades de embalagem Nível 1	box 1 piece
Largura da embalagem Nível 1	78 mm
Profundidade/Comprimento da embalagem Nível 1	155 mm
Altura da embalagem Nível 1	155 mm
Peso bruto da embalagem Nível 1	1.1 kg
Nível de Embalagem 1 EAN	4013614486173
Unidades de embalagem Nível 2	carton 12 piece
Largura da embalagem Nível 2	330 mm
Profundidade/Comprimento da embalagem Nível 2	400 mm
Altura da embalagem Nível 2	320 mm
Peso bruto da embalagem Nível 2	13 kg
Nível de Embalagem 2 EAN	4013614504037

Classifications

Código de classificação do objeto	F
ETIM 5	EC000074 - Motor protective circuit-breaker
ETIM 6	EC000074 - Motor protection circuit-breaker
ETIM 7	EC000074 - Motor protection circuit-breaker
ETIM 8	EC000074 - Motor protection circuit-breaker
eClass	V11.0 : 27370401
UNSPSC	39121521
Código de Categoria Granular IDEA (IGCC)	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers
E-Number (Finland)	3707296
E-Number (Sweden)	3110143

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAM201901R1001	HKF1-11 Auxiliary Contact	HKF1-11	1	piece
1SAM201901R1201	HKF1-11K Auxiliary Contact	HKF1-11K	1	piece
1SAM201901R1002	HKF1-20 Auxiliary Contact	HKF1-20	1	piece
1SAM201901R1202	HKF1-20K Auxiliary Contact	HKF1-20K	1	piece
1SAM201901R1004	HKF1-01 Auxiliary Contact	HKF1-01	1	piece
1SAM201901R1003	HKF1-10 Auxiliary Contact	HKF1-10	1	piece
1SAM201902R1002	HK1-20 Auxiliary Contact	HK1-20	1	piece
1SAM201902R1202	HK1-20K Auxiliary Contact	HK1-20K	1	piece
1SAM201902R1001	HK1-11 Auxiliary Contact	HK1-11	1	piece
1SAM201902R1201	HK1-11K Auxiliary Contact	HK1-11K	1	piece
1SAM201902R1003	HK1-02 Auxiliary Contact	HK1-02	1	piece
1SAM201902R1203	HK1-02K Auxiliary Contact	HK1-02K	1	piece
1SAM201903R1002	SK1-20 Signaling Contact	SK1-20	1	piece

1SAM201903R1202	SK1-20K Signaling Contact	SK1-20K	1	piece
1SAM201903R1001	SK1-11 Signaling Contact	SK1-11	1	piece
1SAM201903R1201	SK1-11K Signaling Contact	SK1-11K	1	piece
1SAM201903R1003	SK1-02 Signaling Contact	SK1-02	1	piece
1SAM201903R1203	SK1-02K Signaling Contact	SK1-02K	1	piece
1SAM201910R1001	AA1-24 Shunt Trip	AA1-24	1	piece
1SAM201910R1002	AA1-110 Shunt Trip	AA1-110	1	piece
1SAM201910R1003	AA1-230 Shunt Trip	AA1-230	1	piece
1SAM201910R1004	AA1-400 Shunt Trip	AA1-400	1	piece
1SAM201904R1010	UA1-20 Undervoltage Release	UA1-20	1	piece
1SAM201904R1001	UA1-24 Undervoltage Release	UA1-24	1	piece
1SAM201904R1002	UA1-48 Undervoltage Release	UA1-48	1	piece
1SAM201904R1003	UA1-60 Undervoltage Release	UA1-60	1	piece
1SAM201904R1004	UA1-110 Undervoltage Release	UA1-110	1	piece
1SAM201904R1008	UA1-208 Undervoltage Release	UA1-208	1	piece
1SAM201904R1005	UA1-230 Undervoltage Release	UA1-230	1	piece
1SAM201904R1006	UA1-400 Undervoltage Release	UA1-400	1	piece
1SAM201904R1007	UA1-415 Undervoltage Release	UA1-415	1	piece
1SAM201904R1009	UA1-575 Undervoltage Release	UA1-575	1	piece
1SAM401923R1003	S2-M3-50 Power Infeed Block	S2-M3-50	1	piece
1SAM401920R1002	PS2-2-0-125 Busbar	PS2-2-0-125	1	piece
1SAM401920R1003	PS2-3-0-125 Busbar	PS2-3-0-125	1	piece
1SAM401920R1004	PS2-4-0-125 Busbar	PS2-4-0-125	1	piece
1SAM401920R1022	PS2-2-2-125 Busbar	PS2-2-2-125	1	piece
1SAM401920R1023	PS2-3-2-125 Busbar	PS2-3-2-125	1	piece
1SAM401920R1024	PS2-4-2-125 Busbar	PS2-4-2-125	1	piece
1SAM401922R1001	KA165 Terminal Shroud	KA165	1	piece
1SAM401921R1001	BS2-3 Protection Cover	BS2-3	1	piece
GJF1101903R0002	SA2 Terminals and Installation Material	SA2	1	piece
1SAM201907R1101	S1-M1-25 Power Infeed Block	S1-M1-25	1	piece
1SAM201907R1102	S1-M2-25 Power Infeed Block	S1-M2-25	1	piece
1SAM201907R1103	S1-M3-25 Power Infeed Block	S1-M3-25	1	piece
1SAM201913R1103	S1-M3-35 Power Infeed Block	S1-M3-35	1	piece
1SAM201914R1002	S1-PB1-25 Power Infeed Block	S1-PB1-25	1	piece
1SAM201920R1011	MSHD-LTB Handles	MSHD-LTB	1	piece
1SAM201920R1012	MSHD-LTY Handles	MSHD-LTY	1	piece
1SAM201920R1000	MSH-AR Shaft Alignment Ring	MSH-AR	1	piece
1SAM101923R0002	MSMN Driver	MSMN	1	piece
1SAM101923R0012	MSMNO Driver	MSMNO	1	piece
1SCA101647R1001	OXS6X85 SHAFT	OXS6X85	1	piece
1SCA108043R1001	OXS6X105 SHAFT	OXS6X105	1	piece
1SCA101655R1001	OXS6X130 SHAFT	OXS6X130	1	piece
1SCA101659R1001	OXS6X180 SHAFT	OXS6X180	1	piece

Categorias

Produtos e Sistemas de Baixa Tensão → Disjuntores → Disjuntores motor

Produtos e Sistemas de Baixa Tensão → Produtos para controle → Disjuntores motor → Disjuntores motor

