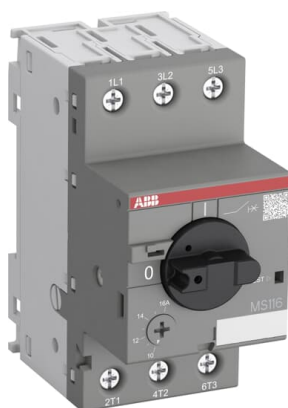


PRODUCT-DETAILS

MS116-4.0

MS116-4.0 Manual Motor Starter



Algemene informatie

Type	MS116-4.0
Artikelnummer	1SAM250000R1008
EAN	4013614320316
Omschrijving	MS116-4.0 Manual Motor Starter

Omschrijving	The MS116-4.0 manual motor starter (also known as motor protection circuit breaker or manual motor protector) is a compact 45 mm width device with a rated operational current of $I_e = 4.0$ A. This device is used to manually switch on and off motors and to protect them reliably and without the need for a fuse from short-circuits, overload and phase failures. The manual motor starter offers a rated service short-circuit breaking capacity $I_{cs} = 50$ kA at 400 VAC and trip class 10A. Further features are the build-in disconnect function, temperature compensation, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter is suitable for three- and single-phase applications. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks and locking devices for protection against unauthorized changes are available as accessory.
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Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85362010

Popular Downloads

Gegevensblad, technische informatie	2CDC131025D0201
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Instructies en handleidingen	2CDC131011M6802
Instructies en handleidingen (deel 2)	2CDC131060M0202
Time-Current Characteristic Curve	1SAM200505F0108
I ² t Characteristic	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003
Cut-off Current Characteristic	1SAM200508F0001 1SAM200508F0002 1SAM200508F0003
Dimensiediagram	1SAM200422F0001

Dimensions

Product netto breedte	45 mm
Product netto hoogte	90 mm
Product netto diepte	85.6 mm
Product netto gewicht	0.265 kg

Technical

Nominaal vermogen kortsluitvermogen (I_{cs})	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 6 kA (500 V AC) 6 kA (690 V AC) 2 kA
Nominaal uliem kortsluitvermogen (I_{cu})	(230 V AC) 75 kA (400 V AC) 75 kA (440 V AC) 18 kA (500 V AC) 15 kA (690 V AC) 3 kA
Nominale directe kortsluitstroom instelling (I_i)	50 A
Instelbereik	2.5 ... 4.0 A
Nominale bedrijfsvermogen AC-3 (P_e)	(400 V) Three Phase 1.5 kW
Nominale bedrijfsvermogen AC-3e (P_e)	(400 V) Three Phase 1.5 kW
Nominaal bedrijfsvoltage	Main Circuit 690 V AC
Nominale bedrijfsstroom (I_e)	4 A
Nominale bedrijfsstroom AC-3 (I_e)	4 A
Nominale bedrijfsstroom AC-3e (I_e))	4 A
Toegekende frequentie (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Nominale impuls grensvoltage (U_{imp})	Main Circuit 6 kV
Nominaal isolatievoltage (U_i)	690 V
Vermogensverlies	at Rated Operating Conditions per Pole 0.7 ... 1.8 W
Aantal polen	3
Conventionele vrije-lucht thermische stroom (I_{th})	Main Circuit 4 A
Beschermingsgraad	Housing IP20 Main Circuit Terminals IP10

Verontreinigingsgraad	3
Elektrische duurzaamheid	100000 cycle
Mechanische duurzaamheid	100000 cycle
Terminaltype	Schroef
Verbindingscapaciteit hoofdcircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Aanhaalmoment	Main Circuit 0.8 ... 1.2 N·m
Kabelstriplengte	Main Circuit 9 mm
Aanbevolen schroevendraaier	Pozidriv 2
Plaats van inbouw	Any; 1 ... 6
Montage op DIN-rail	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
Minimale montageafstand	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
Bedieningswijze	Rotary Handle
Onderbreking	ON / OFF
Normen	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

Technical UL/CSA

Kortsluitstroomwaarde (SCCR)	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 18 kA Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 5 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 18 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 5 kA
Maximale bedrijfsspanning UL/CSA	Main Circuit 600 V AC
Paardenkrachtklasse UL/CSA	(200 V AC) Three Phase 0.75 Hp (208 V AC) Three Phase 0.75 Hp (220 ... 240 V AC) Three Phase 1 Hp (440 ... 480 V AC) Three Phase 2 Hp (550 ... 600 V AC) Three Phase 3 Hp
Vollast amps motorgebruik	(200 V AC) Three Phase 4 A (208 V AC) Three Phase 4 A (220 ... 240 V AC) Three Phase 4 A (440 ... 480 V AC) Three Phase 4 A (550 ... 600 V AC) Three Phase 3.9 A
Locked Rotor Amps	(200 V AC) Three Phase 24 A (208 V AC) Three Phase 24 A (220 ... 240 V AC) Three Phase 24 A (440 ... 480 V AC) Three Phase 24 A (550 ... 600 V AC) Three Phase 25.6 A
Algemeen gebruik klasse UL/CSA	(600 V AC) 4 A
Verbindingscapaciteit hoofdcircuit UL/CSA	Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG
Aanhaalmoment UL/CSA	Main Circuit 10 in-lb

Environmental

Omgevingsluchttempera
tuur

Around the Enclosure 0 ... +40 °C
Operation -25 ... +70 °C
Operation Compensated -25 ... +55 °C
Storage -50 ... +80 °C

Compensatie
omgevingsluchttempera
tuur

Yes

Maximale werkhoogte
toegestaan 2000 m

Schokweerstand volgens
IEC 60068-2-27 11 ms Pulse 25g

Weerstand tegen
trillingen volgens IEC
60068-2-6 5g / 3 ... 150 Hz

RoHS-status Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

ABS-certificaat	1SAA963000-0104
BV-certificaat	1SAA963000-0204
CB-certificaat	1SAA963005-2003 1SAA963006-2001
CQC-certificaat	CQC2011010307506570 CQC2014010307744794
cUL-certificaat	cUL_E137861
Cut-off Current Characteristic	1SAM200508F0001 1SAM200508F0002 1SAM200508F0003
Declaration of Conformity - CCC	2020980307003705 2020980307003043
Conformiteitsverklaring - CE	1SAD101100-3401
Declaration of Conformity - UKCA	1SAD201100-3401
DNV-certificaat	1SAA963000-0304
DNV GL-certificaat	1SAA963000-0304
EAC-certificaat	1SAA963000-2701
Milieu-informatie	1SAC200050H0009
GL-certificaat	1SAA963000-0402
I ² t Characteristic	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003
Instructies en handleidingen	2CDC131011M6802
Instructies en handleidingen (deel 2)	2CDC131060M0202
KC-certificaat	1SAA963000-1501
LR-certificaat	1SAA963000-0505
RMRS-certificaat	1SAA918000-0704
RoHS-informatie	1SAD938517-0060
Time-Current Characteristic Curve	1SAM200505F0108
UL-certificaat	UL_E137861

Container Information

Pakketniveau 1 Units	box 1 stuk
Pakketniveau 1 Breedte	92 mm
Pakketniveau 1 Lengte	95 mm
Pakketniveau 1 Hoogte	50 mm
Pakketniveau 1	0.28 kg

Brutogewicht	
Pakketniveau 1 EAN	4013614320316
Pakketniveau 2 Units	carton 40 stuk
Pakketniveau 2 Breedte	280 mm
Pakketniveau 2 Lengte	395 mm
Pakketniveau 2 Hoogte	210 mm
Pakketniveau 2 Brutogewicht	11.586 kg
Pakketniveau 2 EAN	4013614408687

Classifications

Object classificatiecode	F
ETIM 4	EC000074 - Motor protective circuit-breaker
ETIM 5	EC000074 - Motor protective circuit-breaker
ETIM 6	EC000074 - Motorbeveiligingsschakelaar
ETIM 7	EC000074 - Motor protection circuit-breaker
ETIM 8	EC000074 - Motor protection circuit-breaker
eClass	V11.0 : 27370401
UNSPSC	39121521
IGCC (IDEA granulaire categoriecode)	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers
E-Number (Finland)	3706008
E-Number (Sweden)	3111944

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
1SAM201902R1004	HK1-20L Auxiliary Contact	HK1-20L	1	piece
1SAM201902R1204	HK1-20LK Auxiliary Contact	HK1-20LK	1	piece
1SAM201903R1002	SK1-20 Signaling Contact	SK1-20	1	piece
1SAM201903R1202	SK1-20K Signaling Contact	SK1-20K	1	piece
1SAM201903R1005	SK1-20AR Signaling Contact	SK1-20AR	1	piece
1SAM201903R1205	SK1-20ARK Signaling Contact	SK1-20ARK	1	piece
1SAM201903R1001	SK1-11 Signaling Contact	SK1-11	1	piece
1SAM201903R1201	SK1-11K Signaling Contact	SK1-11K	1	piece
1SAM201903R1004	SK1-11AR Signaling Contact	SK1-11AR	1	piece
1SAM201903R1204	SK1-11ARK Signaling Contact	SK1-11ARK	1	piece
1SAM201903R1003	SK1-02 Signaling Contact	SK1-02	1	piece
1SAM201903R1203	SK1-02K Signaling Contact	SK1-02K	1	piece
1SAM201903R1006	SK1-02AR Signaling Contact	SK1-02AR	1	piece
1SAM201903R1206	SK1-02ARK Signaling Contact	SK1-02ARK	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
1SAM201906R1102	PS1-2-0-65 Busbar	PS1-2-0-65	1	piece
1SAM201906R1112	PS1-2-1-65 Busbar	PS1-2-1-65	1	piece
1SAM201906R1122	PS1-2-2-65 Busbar	PS1-2-2-65	1	piece
1SAM201916R1103	PS1-3-0-100 Busbar	PS1-3-0-100	1	piece
1SAM201906R1103	PS1-3-0-65 Busbar	PS1-3-0-65	1	piece
1SAM201916R1113	PS1-3-1-100 Busbar	PS1-3-1-100	1	piece
1SAM201906R1113	PS1-3-1-65 Busbar	PS1-3-1-65	1	piece
1SAM201916R1123	PS1-3-2-100 Busbar	PS1-3-2-100	1	piece
1SAM201906R1123	PS1-3-2-65 Busbar	PS1-3-2-65	1	piece
1SAM201916R1104	PS1-4-0-100 Busbar	PS1-4-0-100	1	piece
1SAM201906R1104	PS1-4-0-65 Busbar	PS1-4-0-65	1	piece
1SAM201916R1114	PS1-4-1-100 Busbar	PS1-4-1-100	1	piece
1SAM201906R1114	PS1-4-1-65 Busbar	PS1-4-1-65	1	piece
1SAM201906R1124	PS1-4-2-65 Busbar	PS1-4-2-65	1	piece
1SAM201916R1105	PS1-5-0-100 Busbar	PS1-5-0-100	1	piece
1SAM201906R1105	PS1-5-0-65 Busbar	PS1-5-0-65	1	piece
1SAM201916R1115	PS1-5-1-100 Busbar	PS1-5-1-100	1	piece
1SAM201906R1115	PS1-5-1-65 Busbar	PS1-5-1-65	1	piece
1SAM201906R1125	PS1-5-2-65 Busbar	PS1-5-2-65	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
1SAM201914R1001	PB1-1-32 Connecting Link	PB1-1-32	1	piece
1SAM201908R1001	BS1-3 Protection Cover	BS1-3	1	piece
1SAM201909R1001	FS116 Screw Fixing Kit	FS116	1	piece
GJF1101903R0001	SA1 Terminals and Installation Material	SA1	1	piece
GJF1101903R0002	SA2 Terminals and Installation Material	SA2	1	piece
GJF1101903R0003	SA3 Terminals and Installation Material	SA3	1	piece
1SAM201911R1012	IB132-F Enclosure	IB132-F	1	piece
1SAM201911R1010	IB132-G Enclosure	IB132-G	1	piece
1SAM201911R1011	IB132-Y Enclosure	IB132-Y	1	piece
1SAM201912R1010	DMS132-G Door Mounting Kit	DMS132-G	1	piece
1SAM201912R1011	DMS132-Y Door Mounting Kit	DMS132-Y	1	piece
1SAM201909R1021	MSAH1 Shaft Supporter	MSAH1	1	piece
1SAM201920R1001	MSHD-LB Handles	MSHD-LB	1	piece
1SAM201920R1002	MSHD-LY Handles	MSHD-LY	1	piece
1SAM201920R1000	MSH-AR Shaft Alignment Ring	MSH-AR	1	piece
1SAM101923R0002	MSMN Driver	MSMN	1	piece
1SCA101655R1001	OXS6X130 SHAFT	OXS6X130	1	piece
1SAM101923R0012	MSMNO Driver	MSMNO	1	piece
1SCA101659R1001	OXS6X180 SHAFT	OXS6X180	1	piece
1SCA101647R1001	OXS6X85 SHAFT	OXS6X85	1	piece
1SCA108043R1001	OXS6X105 SHAFT	OXS6X105	1	piece

Categorieën

Laagspanningsproducten en -systemen → Control Producten → Handmatige motorstarters → Handmatige motorstarters

Laagspanningsproducten en -systemen → Vermogensschakelaars → Handmatige motorstarters

