

PRODUCT-DETAILS

# MO165-42

## MO165-42 Manual Motor Starter Magnetic Only 42 A



### Informations générales

Extension du type de produit	MO165-42
Code de produit	1SAM461000R1015
EAN	4013614486166
Description courte	MO165-42 Manual Motor Starter Magnetic Only 42 A

Description longue	<p>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.</p>
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### Commande

Quantité minimum	1 pièce
Code douanier	85362010

## Downloads Préférés

Fiche produit, informations techniques	2CDC131084D0201
Instructions et manuels	2CDC131082M6801
Instructions et manuels (Partie 2)	2CDC131060M0202
Time-Current Characteristic Curve	1SAM400515F0001
I <sup>t</sup> Characteristic	1SAM400506F0001
Cut-off Current Characteristic	1SAM400507F0001
CAD Dimensional Drawing	2CDC001079B0201
Schéma dimensionnel	1SAM400402F0001

## Dimensions

Produit Largeur Net	55 mm
Produit Hauteur Net	142.65 mm
Produit Longueur Net	122.1 mm
Poids net	0.97 kg

## Technique

Pouvoir assigné de coupure de service en court-circuit (I <sub>cs</sub> )	(230 V AC) 50 kA (250 V DC) 3 Poles in Series 100 kA (400 V AC) 50 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 10 kA
Pouvoir assigné de coupure ultime en court-circuit (I <sub>cu</sub> )	(230 V AC) 50 kA (250 V DC) 100 kA (400 V AC) 50 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 10 kA
Courant assigné instantané de réglage de court-circuit (I <sub>i</sub> )	630 A
Setting Range	None
Puissance assignée d'emploi AC-3 (P <sub>e</sub> )	(400 V) Three Phase 22 kW
Puissance assignée d'emploi AC-3e (P <sub>e</sub> )	(400 V) Three Phase 22 kW
Tension	Circuit principal 690 V AC Circuit principal 250 V DC
Courant nominal de fonctionnement (I <sub>e</sub> )	42 A
Courant assignée d'emploi AC-3 (I <sub>e</sub> )	42 A
Courant assignée d'emploi AC-3e (I <sub>e</sub> )	42 A

Courant assignée d'emploi DC-5 ( $I_e$ )	42 A
Fréquence assignée (f)	Circuit principal 50 Hz Circuit principal 60 Hz
Operating Frequency ( $f_{sw}$ )	0 ... 415 Hz
Tension assignée de tenue aux chocs ( $U_{imp}$ )	Circuit principal 8 kV
Tension assignée d'isolement ( $U_i$ )	1000 V
Power Loss	5.47 W
Nombre de pôles	3
Courant thermique conventionnel à l'air libre ( $I_{th}$ )	Main Circuit 42 A
Indice de protection	Housing IP20 Main Circuit Terminals IP10
Degré de pollution	3
Electrical Durability	25000 cycle
Durabilité mécanique	50000 cycle
Type de borne	Screw Terminals
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 1 ... 35 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 35 mm <sup>2</sup> Flexible 1/2x 1 ... 35 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup> Solid 1/2x 1 ... 4 mm <sup>2</sup> Stranded 1/2x 1 ... 50 mm <sup>2</sup>
Couple de serrage	Main Circuit 4 N·m
Wire Stripping Length	Main Circuit 16 mm
Recommended Screw Driver	Pozidriv 2
Type d'encastrement	1 ... 6
Montage sur rail 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
Normes et standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-4-1
Remarques	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used

## Technique UL/CSA

Short-Circuit Current Rating (SCCR)	Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC) 65 kA
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	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	Circuit principal 600 V AC
Puissance nominale UL/CSA	(200 V AC) Three Phase 10 Hp (208 V AC) Three Phase 10 Hp (220 ... 240 V AC) Three Phase 15 Hp (440 ... 480 V AC) Three Phase 30 Hp (550 ... 600 V AC) Three Phase 40 Hp
Full Load Amps Motor Use	(200 V AC) Three Phase 32.2 A (208 V AC) Three Phase 30.8 A (220 ... 240 V AC) Three Phase 42 A (440 ... 480 V AC) Three Phase 40 A (550 ... 600 V AC) Three Phase 41 A
Locked Rotor Amps	(200 V AC) Three Phase 186.3 A (208 V AC) Three Phase 179 A (220 ... 240 V AC) Three Phase 232 A (440 ... 480 V AC) Three Phase 218 A (550 ... 600 V AC) Three Phase 232 A
General Use Rating UL/CSA	(600 V AC) 42 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

## Environnement

Température de l'air ambiant	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	Non
Altitude de fonctionnement maximale autorisée	2000 m
REACH Declaration	1SAA963005-4502
Résistance aux chocs selon CEI 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6	mounted on DIN-rail: 4g / 3 ... 150 Hz mounted on mounting plate: 5g / 3 ... 150 Hz 5g / 3 ... 150 Hz
Informations RoHS	1SAA963006-4502
Statut RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificats et Déclarations (Numéro de document)

Certificat ABS	1SAA963002-0101
Certificat BV	1SAA963002-0201

CB Certificate	1SAA918002-2002
CQC Certificate	CQC2015010307760141
Cut-off Current Characteristic	1SAM400507F0001
Declaration of Conformity - CCC	2020980307003042
Déclaration de Conformité - CE	1SAD101100-3409
Declaration of Conformity - UKCA	1SAD201100-3409
DNV GL Certificate	1SAA963002-0301
EAC Certificate	1SAA963000-2701
I <sub>pt</sub> Characteristic	1SAM400506F0001
IECEX Certificate	1SAA918000-4001
Certificat LR	1SAA918001-0501
Certificat RMRS	1SAA918000-0704
Certificat UL	E137861-20150206 E345003-20150206

## Emballage

Emballage Niveau 1 Unités	box 1 pièce
Emballage Niveau 1 Largeur	64 mm
Emballage Niveau 1 Longueur	177 mm
Emballage Niveau 1 Hauteur	140 mm
Emballage Niveau 1 Poids	1.1 kg
Emballage Niveau 1 EAN	4013614486166
Emballage Niveau 2 Unités	carton 12 pièce
Emballage Niveau 2 Largeur	330 mm
Emballage Niveau 2 Longueur	400 mm
Emballage Niveau 2 Hauteur	320 mm
Emballage Niveau 2 Poids	13 kg
Emballage Niveau 2 EAN	4013614504020

## Classifications

Code de classification d'objet	F
ETIM 5	EC000074 - Motor protective circuit-breaker
ETIM 6	EC000074 - disjoncteur/démarrreur de moteur
ETIM 7	EC000074 - Motor protection circuit-breaker
ETIM 8	EC000074 - Motor protection circuit-breaker
eClass	V11.0 : 27370401

UNSPSC	39121521
Code de catégorie granulaire IDEA (IGCC)	4731 >> Manual Starters
E-Number (Finland)	3707295
E-Number (Sweden)	3110142

## 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

## Catégories

Produits basse tension → Disjoncteurs de puissance → Disjoncteurs-moteurs

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Disjoncteurs-moteurs → Disjoncteurs-moteurs

