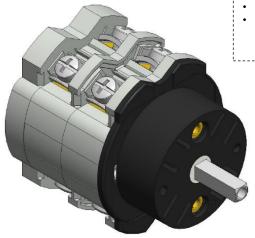


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ISO 9001 Certified Quality System

Cod. CA0400039PL2



(Image is purely indicative)



Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller



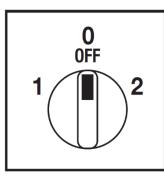
Technical characteristics: Body

- Change-over switch 4 pole
- IP00 Protection degree
- Rated operational current le: 40A (AC-21A)
- Rated thermal current Ith: 50A
- Rated insulation voltage Ui: 690V
- · Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

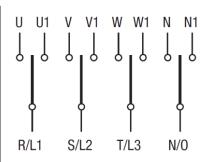
Technical characteristics: Knob

- Transparent plate 75,5x75,5mm and black knob
- · Fixing with 2 screws at 28mm vertical
- IP 40 Protection degree

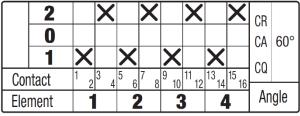
Positions



Electrical diagram



Electrical function





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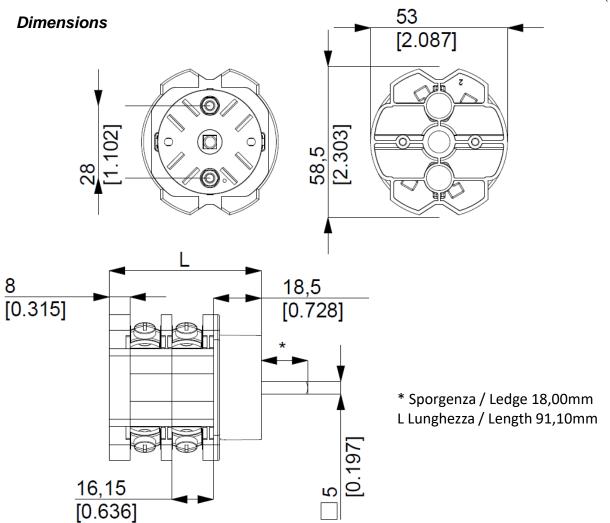
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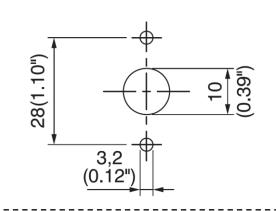
info@bremas.it

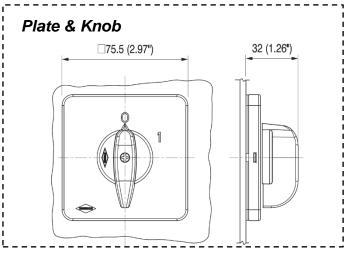
Cod. CA0400039PL2

measures in mm (in)



Drilling templates





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ISO 9001 Certified Quality System

Cod. CA0400039PL2

Rated insulation voltage Rated insulation voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated thermal current for open switch Rated thermal current for enclosed switch Rated operating requency Power dissipation for each pole Rated operating current AC-21A Switching resistive loads, including moderate overloads AC-22A Switching of mixed resistive and inductive loads, including moderate overloads AC-23A Switching of mixed resistive and inductive loads conditions Rated operating power AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45) Short circuit protection Rated short time withstand current	Ui Ue Uimp Ith Ithe Ithe le le le le 230V 400V 500V 690V 110V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	V V V KV A A A A A Hz W W MA A A A A A A A A A A A A A A A A	690 690 690 6 50 50 50/60 1,3 40 32 - 10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 16 (16) 2,2 (25) 4,5 (25) - 3 (10) 5,5 (10)
Rated operating voltage Rated impulse withstand voltage Rated thermal current for open switch Rated thermal current for open switch Rated operation frequency Power dissipation for each pole Rated operating current AC-21A switching resistive loads, including moderate overloads AC-22A Switching of mixed resistive and inductive loads, including moderate overloads AC-20A Connecting and disconnecting under no loads conditions Rated operating power AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	Ue Uimp Ith Uthe Ithe Ithe Ie In Ithe Ithe Ithe Ithe Ithe Ithe Ithe It	V kV A A A Hz W A A A A A A A A Kw (A)	690 6 50 50 50/60 1,3 40 32 - 10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
Rated impulse withstand voltage Rated thermal current for open switch Rated thermal current for enclosed switch Rated operation frequency Power dissipation for each pole Rated operating current AC-21A Switching resistive loads, including moderate overloads AC-22A Switching of mixed resistive and inductive loads, including moderate overloads AC-20A Connecting and disconnecting under no loads conditions Rated operating power AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	Uimp Ith Ithe I	kV A A A Hz W A A A A A A A A Kw (A)	6 50 50 50/60 1,3 40 32 - 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
Rated thermal current for open switch Rated thermal current for enclosed switch Rated operation frequency Dower dissipation for each pole Rated operating current RC-21A Switching resistive loads, including moderate overloads RC-22A Switching of mixed resistive and inductive loads, including moderate overloads RC-20A Connecting and disconnecting under no loads conditions Rated operating power RC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole RC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole RC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole RC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole RC-4 Squirrel cage motors: starting, pluggign, inching RC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	Ith Ithe I	A A A Hz W A A A A A A A Kw (A)	50 50 50/60 1,3 40 32 - 10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
tated thermal current for enclosed switch lated operation frequency lower dissipation for each pole lated operating current (C-21A Switching resistive loads, including moderate overloads (C-22A Switching of mixed resistive and inductive loads, including moderate overloads (C-20A Connecting and disconnecting under no loads conditions lated operating power (C-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole (C-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole (C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole (C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole (C-4 Squirrel cage motors: starting, pluggign, inching (C-15 Control of a.c electromagnetic loads lated breaking capability in AC-23A (cos φ=0,45) (chort circuit protection	Ithe Ithe Ie Ie Ie Ie Ie Ie Ie	A Hz W A A A Kw (A)	50 50/60 1,3 40 32 - 10 (32) 18,5 (30) 18,5 (27) 18,5 (29) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
tated operation frequency Tower dissipation for each pole tated operating current CC-21A Switching resistive loads, including moderate overloads CC-22A Switching of mixed resistive and inductive loads, including moderate overloads CC-20A Connecting and disconnecting under no loads conditions tated operating power CC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole CC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole CC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole CC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole CC-4 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole CC-5 Control of a.c electromagnetic loads tated breaking capability in AC-23A (cos φ=0,45) (chort circuit protection	230V 400V 500V 690V 1230V 230V 400V 500V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V 400V	Hz W A A A Kw (A)	50/60 1,3 40 32 - 10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
Power dissipation for each pole Rated operating current CC-21A Switching resistive loads, including moderate overloads CC-22A Switching of mixed resistive and inductive loads, including moderate overloads CC-20A Connecting and disconnecting under no loads conditions Rated operating power CC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole CC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole CC-23A Switching of motors: starting, swtiching off motors during running 3 phase - 3 pole CC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole CC-4 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole CC-4 Squirrel cage motors: starting, pluggign, inching CC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	230V 400V 500V 690V 110V 230V 400V 500V 690V 1110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	1,3 40 32 10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) 3 (10)
Acc-21A Switching resistive loads, including moderate overloads Acc-21A Switching of mixed resistive and inductive loads, including moderate overloads Acc-20A Connecting and disconnecting under no loads conditions Bated operating power Acc-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole Acc-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole Acc-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole Acc-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole Acc-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole Acc-4 Squirrel cage motors: starting, pluggign, inching Acc-15 Control of a.c electromagnetic loads Bated breaking capability in Acc-23A (cos φ=0,45)	230V 400V 500V 690V 110V 230V 400V 500V 690V 1110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	40 32 10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25)
AC-21A Switching resistive loads, including moderate overloads AC-22A Switching of mixed resistive and inductive loads, including moderate overloads AC-20A Connecting and disconnecting under no loads conditions Rated operating power AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	230V 400V 500V 690V 110V 230V 400V 500V 690V 1110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	A Kw (A)	32 -10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads AC-20A Connecting and disconnecting under no loads conditions Rated operating power AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	230V 400V 500V 690V 110V 230V 400V 500V 690V 1110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	A Kw (A)	32 -10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
AC-20A Connecting and disconnecting under no loads conditions Rated operating power AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads Rated breaking capability in AC-23A (cos φ=0,45)	230V 400V 500V 690V 110V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V 400V	Kw (A)	10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads tated breaking capability in AC-23A (cos φ=0,45) Abort circuit protection	400V 500V 690V 110V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	10 (32) 18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) -
C-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole C-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	400V 500V 690V 110V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) -
CC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole CC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole CC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole CC-4 Squirrel cage motors: starting, pluggign, inching CC-15 Control of a.c electromagnetic loads	400V 500V 690V 110V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	18,5 (30) 18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) -
C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads tated breaking capability in AC-23A (cos φ=0,45)	500V 690V 110V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	18,5 (27) 18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	690V 110V 230V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V 400V	Kw (A)	18,5 (19) 3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	110V 230V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V	Kw (A)	3 (34) 5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) -
C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	230V 230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V	Kw (A)	5,5 (30) 7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	230V 400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	Kw (A) A	7,5 (24) 15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) -
C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	400V 500V 690V 110V 230V 400V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	15 (27) 15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
CC-4 Squirrel cage motors: starting, pluggign, inching CC-15 Control of a.c electromagnetic loads stated breaking capability in AC-23A (cos φ=0,45) short circuit protection	500V 690V 110V 230V 400V 230V 400V 230V 400V 230V	Kw (A)	15 (22) 16 (16) 2,2 (25) 4,5 (25) - 3 (10)
C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	690V 110V 230V 400V 230V 400V 230V 400V 230V	Kw (A) A	16 (16) 2,2 (25) 4,5 (25) - 3 (10)
C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	110V 230V 400V 230V 400V 230V 400V 230V	Kw (A) Kw (A) Kw (A) Kw (A) Kw (A) A	2,2 (25) 4,5 (25) - 3 (10)
C-4 Squirrel cage motors: starting, pluggign, inching C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	230V 400V 230V 400V 230V 400V 230V	Kw (A) Kw (A) Kw (A) Kw (A) A	4,5 (25) - 3 (10)
C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	400V 230V 400V 230V 400V 230V	Kw (A) Kw (A) Kw (A) A	3 (10)
C-15 Control of a.c electromagnetic loads ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	230V 400V 230V 400V 230V	Kw (A) Kw (A) A	3 (10)
C-15 Control of a.c electromagnetic loads sated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	400V 230V 400V 230V	Kw (A) A	
ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	230V 400V 230V	Α	5,5 (10)
ated breaking capability in AC-23A (cos φ=0,45) hort circuit protection	400V 230V		10
hort circuit protection	230V	A	10
hort circuit protection			8
		A	256
·	4000	Α	240
ated short time withstand current	laur		
lated short-circuit make capacity	Icw	A A	2000
lated snort-circuit make capacity	lcm -	kA	10
Vith fuses class gG		A	50
echnical data UL/CSA	3000	A	30
ated operating voltage	Ue	UL/CSA V	600/600
Seneral use current	le le	UL/CSA V	40/32
	ie	Arms	5000
hort circuit rating @600Vac use size (Class RK5, 600Vac, 200kA A.I.C.)		A	60
ated operating power		A	1 60
· · · · · · · · · · · · · · · · · · ·	1201/	IIn (A)	2 (24)/2 5
phase - 2 pole	120V	Hp (A)	3 (34)/2,5
where 2 and	240V	Hp (A)	7,5 (40)/4,5
phase - 3 pole	200V	Hp (A)	10 (32,2)/-
	240V	Hp (A)	15 (42)/9,5
	480V	Hp (A)	20 (27)/20
Sanhautan ahaya atayistiga	600V	Hp (A)	20 (22)/25
Nechanical characteristics anel tickness			1
	Max	mm Cuelos y 106	4
Aechanical life		Cycles x 10 ⁶	1,5
annestica according to IFC 0474.1 and FN F0047.1		Cycles/hr	120
onnection according to IEC 9471-1 and EN 50947-1	India adam		1 225.55
onnecting capability With fl	lexible wires Min-Max		2x2,5-10
	Min-Max		14-8
	olid wires Min-Max		2x2,5-16
onnection terminal screw dimensions		Type	M4
crew tightening torque		Nm	1,2
rotection degree IEC 529 EN 60529			1
erminals		IP	00
mbient conditions			1
		°C	-25 ÷ +55
perating ambient temperature			
torage ambient temperature torage ambient temprature vithstand to constant humid according to IEC 60068		°C	-30 ÷ +70 2-78

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