

**IEC**

		25 A	32 A	50 A	63 A	80 A	100 A
Rated operating voltage U <sub>i</sub>	V	690	690	690	690	690	690
Rated thermal current - open - I <sub>u</sub> /I <sub>th</sub>	A	25	32	50	63	80	100
Rated thermal current - enclosed - I <sub>th</sub>	A	20	25	40	50	63	80
Rated impulse withstand voltage U <sub>imp</sub> <sup>(1)</sup> kV		6	6	6	6	6	6
Rated operating current I <sub>e</sub> I <sub>e</sub> AC - 21A/22A 230 to 690 V	A	25	32	50	63	80	100
Rated operating power							
AC-23A							
3 x 230 V	kW	5.5	5.5	15	15	18.5	22
3 x 400 V		7.5	11	18.5	22	30	37
3 x 500 V		7.5	11	22	30	37	45
3 x 690 V		7.5	11	18.5	22	22	30
AC-3							
3 x 230 V		4	4	7.5	11	15	18.5
3 x 400 V		5.5	7.5	15	18.5	22	30
3 x 500 V		5.5	7.5	15	22	30	37
3 x 690 V		5.5	7.5	15	18.5	18.5	22
Make - break characteristics							
Rated make capacity	A <sub>eff</sub> /400 V	710	710	1270	1270	1970	1970
Rated break capacity	A <sub>eff</sub> /400 V	330	330	800	800	800	800
Short circuit characteristics							
Rated short time withstand current - I <sub>scw</sub>	A <sub>eff</sub> /400 V/1s	350	430	500	760	1100	1500
Rated short circuit make capacity - I <sub>cm</sub>	kA peak/400 V	1	1	1.8	1.8	2.8	2.8
Short circuit current	kA <sub>eff</sub> /400V	10	10	10	10	10	10
with fuse gI/gG	A	25	32	50	63	80	100
Mechanical life AC-20	million	0.1	0.1	0.04	0.04	0.04	0.04
Connections							
Stranded wire plus connector (max/min)	AWG	8 - 14	8 - 14	4 - 14	4 - 14	1 - 14	1 - 14
	mm <sup>2</sup>	6/0.75	6/0.75	16/1.5	16/1.5	35/2.5	35/2.5
Solid wire	AWG	8 - 14	8 - 14	4 - 14	4 - 14	1 - 14	1 - 14
	mm <sup>2</sup>	10	10	25	25	50	50
Protection rating		inside panel : IP xx B		outside panel : IP 40		IP 65 upon request	
Conformity to standards		IEC 947-3 - EN 60 947-3					
Approvals		UL - cUL (USA - Canada) - CE					
Climactic resistance		Tropical atmosphere according to :			IEC 68/2.3 constant humid heat IEC 68/2.30 cyclical humid heat		
Auxiliary contact electrical characteristics							
Rated operating voltage U <sub>i</sub>	V	400	400	400	400	400	400
Rated thermal current - open - I <sub>u</sub> /I <sub>th</sub>	A	10	10	10	10	10	10
Rated operating current - I <sub>e</sub> AC-15	230 V A	6	6	6	6	6	6
	400 V A	4	4	4	4	4	4
Protection against short circuit by fuse gG	A	10	10	10	10	10	10
Connection Stranded wire max.	AWG	14 - 18	14 - 18	14 - 18	14 - 18	14 - 18	14 - 18
	mm <sup>2</sup>	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5

DC electrical characteristics, contact Baco Controls

**Disconnect Switches**  
technical specifications

**25A to 100A**



UL / CSA / CE

UL / cUL			Size 1 25 A	Size 1 32 A	Size 2 50 A	Size 2 63 A	Size 3 80 A	Size 3 100 A
<b>Rated Voltage</b>	V		600	600	600	600	600	600
<b>General Use Current</b>	A		25	32	50	63	80	100
<b>Motors Ratings</b>	1 x 120 Vac	HP	0.75	1	1.5	3	3	5
	1 x 240 Vac	HP	1.5	2	3	5	10	10
	1 x 277 Vac	HP	2	3	5	7.5	10	15
	3 x 120 Vac	HP	1.5	2	3	5	7.5	10
	3 x 240 Vac	HP	3	5	7.5	10	20	25
	3 x 480 Vac	HP	7.5	10	15	20	40	50
	3 x 600 Vac	HP	7.5	10	15	20	40	50
<b>Auxiliary Blocks</b>	Heavy Duty	NC / NO	A600	A600	A600	A600	A600	A600
	Standard Duty	Early Make	B300	B300	B300	B300	B300	B300
		Early Break	B300	B300	B300	B300	B300	B300
<b>Wire Gauge</b>	3-Pole Body Additional Pole Late Break Neutral Terminal Block		8 - 14 AWG	8 - 14 AWG	4 - 14 AWG	4 - 14 AWG	1 - 14 AWG	1 - 14 AWG
	Auxiliary Contacts		14 - 18 AWG	14 - 18 AWG	14 - 18 AWG	14 - 18 AWG	14 - 18 AWG	14 - 18 AWG
<b>Temperature Range</b>	Storage and Operation	deg F	-22 to +158	-22 to +158	-22 to +158	-22 to +158	-22 to +158	-22 to +158
		deg C	-30 to +70	-30 to +70	-30 to +70	-30 to +70	-30 to +70	-30 to +70
<b>Short Circuit Rating</b>	Fuse Type K5	A	5000	5000	5000	5000	5000	10000
	Fuse Size	A	40	40	80	80	125	125

**Enclosures**

<b>Dimensions</b>	<b>Inches</b>	5.91 x 3.94 x 3.78*	8.66 x 5.91 x 3.94	8.66 x 5.91 x 3.94	8.66 x 5.91 x 3.94	8.66 x 5.91 x 3.94	11.81 x 8.66 x 5.91
	<b>mm</b>	150 x 100 x 96*	220 x 150 x 100	220 x 150 x 100	220 x 150 x 100	220 x 150 x 100	300 x 220 x 100
<b>Rating</b>	25 and 32 A	25 and 32 A	50 and 63 A	50 and 63 A	80 and 100 A	80 and 100 A	
	3 poles to 4 poles + NC/NO	6 poles and 6 poles + NC/NO	3 poles to 4 poles + NC/NO	6 poles and 6 poles + NC/NO	3 poles and 3 poles + NC/NO	4 poles to 6 poles + NC/NO	
<b>Cable entries</b>	2 x 2 Pg 16 or 2 x 2 M25*	2 x 2 Pg 21	2 x 2 Pg 21	2 x 2 Pg 29	2 x 2 Pg 29	2 x 2 Pg 21 and 2 x 2 Pg 29	
<b>Ø push-through openings (mm)</b>	22.5/25*	28.5	28.5	37.5	37.5	37.5/28.5	
<b>Switch/base assembly</b>	on 35 mm DIN rail (this rail is suitably notched to ensure the positioning of the switch)						
<b>Insulation</b>	class II installed (provided correct usage of the insulation plugs which must be pushed down over the base-to-panel mounting screws, supplied with each enclosure.)						
<b>Impact resistance</b>	IK 7						
<b>Fire resistance</b>	960° C by incandescent wire (IEC 925-2-1)						
<b>Protection rating</b>	IP 40 in standard version (IP 65 on request)						

\* Dimensions given for Padlockable version.  
Non-Padlockable dimensions 150 x 100 x 75. M25 entry only with Padlockable version.