

PSR3 ... PSR45

Technical data

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Rated insulation voltage, U_i	600 V										
Rated operational voltage, U_e	208...600 V										
Rated supply voltage, U_s	100...240 V AC or 24 V DC										
Rated operational current, I_r	PSR3	PSR6	PSR9	PSR12	PSR16	PSR25	PSR30	PSR37	PSR45		
	3.9 A	6.8 A	9 A	12 A	16 A	25 A	30 A	37 A	45 A		
Starting capacity at I_r	4 x I_r for 6 sec.										
Number of starts per hour, with aux. fan	standard 10 (4 x I_e during 6 s) 20 (4 x I_e during 6 s)										
Service factor	100 %										
Ambient temperature	during operation ¹⁾	-25 °C to +60 °C									
	during storage	-40 °C to +70 °C									
Maximum altitude ²⁾	4000 m										
Degree of protection,		PSR3	PSR6	PSR9	PSR12	PSR16	PSR25	PSR30	PSR37	PSR45	
	main circuit	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP10	IP10	
	control circuit	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
Connectable cable area,		PSR3 - PSR16					PSR25 - PSR30		PSR37 - PSR45		
	main circuit	1 x 0.75 - 2.5 mm ² 2 x 0.75 - 2.5 mm ²					1 x 2.5 - 10 mm ² 2 x 2.5 - 10 mm ²		1 x 6 - 35 mm ² 2 x 6 - 16 mm ²		
	control circuit	PSR3 - PSR16 1 x 2.5 mm ² 2 x 2.5 mm ²					PSR25 - PSR45 1 x 2.5 mm ² 2 x 1.5 mm ²				
Signal relays		PSR3 - PSR16					PSR25 - PSR45				
	for Run signal										
	Resistive load	240 V, 2 A					250 V, 5 A				
	AC-15 (Contactor)	240 V, 0.5 A					250 V, 0.5 A				
	for Top of Ramp signal										
	Resistive load	-					250 V, 2 A				
	AC-15 (Contactor)	-					250 V, 0.5 A				
LED	for On/Ready	Green									
	for Run/Top Of Ramp	Green									
Setting of Start Ramp		1-10 sec.									
	Stop Ramp	0-20 sec.									
Initial- and End Voltage		40-70%									

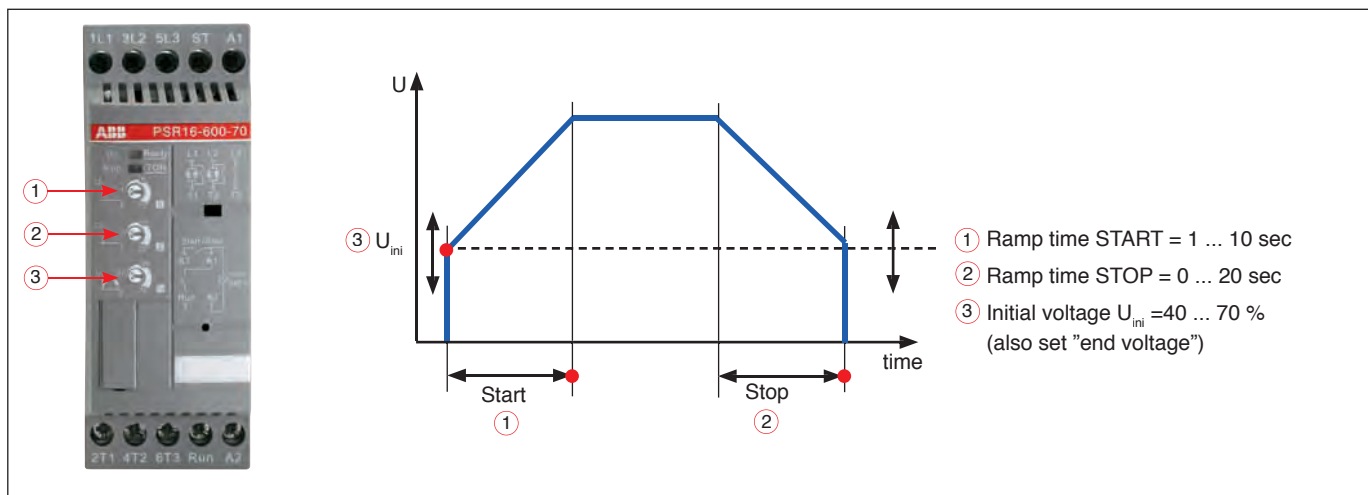
¹⁾ Above 40 °C up to max. 60 °C reduce the rated current with 0.8 % per °C.

²⁾ When used at high altitudes above 1000 meters up to 4000 meters you need to derate the rated current using the following formula.

$$\left[\% \text{ of } I_e = 100 - \frac{x - 1000}{150} \right]$$

x = actual altitude for the softstarter


Settings



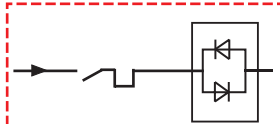
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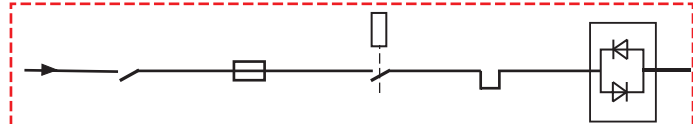
Recommended Starter Combinations at 400 V acc. to IEC60947.



Alternative with Manual Motor Starter



Alternative with gG Fuses



Motor	Max I _e	Manual Motor Starter	Soft-starter	Switch fuse	gG Fuse	Line contactor	Overload protection	Softstarter
kW	A	Type	Type	Type	Type	Type	Type	Type
1.5	3.9	MS116	PSR3	OS32D	10A gG	A9	TA25DU	PSR3
3	6.8	MS116	PSR6	OS32D	16A gG	A9	TA25DU	PSR6
4	9	MS116	PSR9	OS32D	25A gG	A9	TA25DU	PSR9
5.5	12	MS116	PSR12	OS32D	32A gG	A12	TA25DU	PSR12
7.5	16	MS116	PSR16	OS32D	32A gG	A16	TA25DU	PSR16
11	25	MS325	PSR25	OS32D	50A gG	A26	TA25DU	PSR25
15	30	MS450	PSR30	OS32D	63A gG	A30	TA25DU	PSR30
18.5	37	MS450	PSR37	OS63D	100A gG	A40	TA42DU	PSR37
22	45	MS450	PSR45	OS125D	125A gG	A50	TA75DU	PSR45

UL ratings

Softstarter	Motor power P (hp) and full load current FLA (A)					Max. fuse
	FLA	U _e 208 V	U _e 240 V	U _e 480 V	U _e 600V	
Type	A	hp	hp	hp	hp	A, Type
208 - 600 V AC						
<i>Supply voltage 100-240 V AC alt. 24 V DC</i>						
PSR3	3.4	0.5	0.75	2	2	40 A J-Type
PSR6	6.1	1	1.5	3	5	40 A J-Type
PSR9	9	2	2	5	7.5	40 A J-Type
PSR12	11	3	3	7.5	10	40 A J-Type
PSR16	15.2	3	5	10	10	40 A J-Type
PSR25	24.2	7.5	7.5	15	20	60 A J-Type
PSR30	28	7.5	10	20	25	70 A J-Type
PSR37	34	10	10	25	30	100 A J-Type
PSR45	46.2	15	15	30	40	100 A J-Type