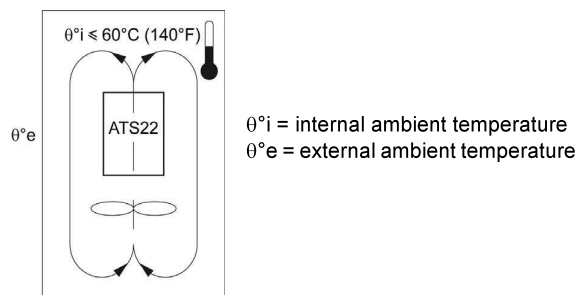


Mounting in a dust and damp-proof metal enclosure

Ventilation for dust and damp- proof enclosure



Follow the instructions in this section in order to meet NEMA Type 12 (IP54) degree of protection.

Do not use insulated or non-metallic enclosures as they have poor thermal conduction. Provide a stirring fan to circulate air inside the enclosure and to help prevent hot spots in the soft starter. This allows operation of the soft starter in an enclosure with a maximum internal temperature of 60°C (140°F). Ensure that the ambient temperature around the soft starters does not exceed this limit.

Derate the soft starter current I_{cL} by 2.2% per °C for temperatures above 40°C up to 60°C (104°F up to 140°F).

Thermal considerations for sizing enclosures

When mounting the ATS22 soft starter in an enclosure, use the enclosure manufacturers' recommendations for proper sizing based on thermal considerations. For this, it is necessary to sum the power dissipated by each device in the enclosure. Table hereafter lists the steady state and starting power dissipations for the ATS22 soft starter, operating at rated current.

Power dissipated by the soft starters, at their nominal current

Soft starter reference	Power				Control supply		
	Frame size	I_{cL}	During starting total power at 3.5 I_{cL}	Steady state total power bypass	Electronics	Shorting contactors (1)	Fans
		A	W	W	W	W	W
ATS22D17	A	17	208	5	20	-	14 (2)
ATS22D32	A	32	404	10			
ATS22D47	A	47	562	14			
ATS22D62	B	62	781	19	20	-	20 (2)
ATS22D75	B	75	1016	23			
ATS22D88	B	88	1060	26			
ATS22C11	C	110	1345	33	20	-	20 (2)
ATS22C14	C	140	1548	42			
ATS22C17	C	170	1922	51			
ATS22C21	D	210	2596	63	20	14	20
ATS22C25	D	250	3275	75			
ATS22C32	D	320	3699	96			
ATS22C41	D	410	5147	123			
ATS22C48	E	480	6396	144	20	14	40
ATS22C59	E	590	7599	177			

(1) For ATS22●●●Q, ATS22●●●S6 and ATS22●●●S6U, frame sizes A, B and C the shorting contactor power is included in the electronics.

(2) Optional fan kit

Example: for an ATS22D47

Power dissipated during starting: 562 W

Power dissipated in steady state: 14 W

Power for Control supply: 20 W without fan, 34 W with fan

Example: for an ATS22C48

Power dissipated during starting: 6396 W

Power dissipated in steady state: 144 W

Power for Control supply: 74 W