

Fișă tehnică produs

Specificatii



Soft Starter Ats22 Comanda 220V Forta 230V(4Kw)/400, 440V(7.5Kw)

ATS22D17Q

Principale

gama de produse	Altistart 22
Tip produs sau componenta	Declansator lent
destinatie produs	Motoare asincrone
aplicatie specifica produsului	Pumps and fans
nume componenta	ATS22
numar faze in retea	3 faze
[Us] tensiune de alimentare nominala	230...440 V - 15...10 %
putere motor kW	4 kW 230 V 7,5 kW 400 V 7,5 kW 440 V
setare initiala curent	14,8 A
puterea disipata in W	39 W pentru aplicații standard
categorie de utilizare	AC-53A
tip de pornire	Start cu control cuplu (curent limitat la 3.5 In)
Curent nominal demaror	17 A pentru conectare în linia de alimentare a motorului pentru aplicații standard
grad de protectie IP	IP20

Suplimentare

stil de asamblare	Cu radiator
functie disponibila	Bypass intern
limite tensiune de alimentare	195...484 V
frecventa de alimentare	50...60 Hz - 10...10 %
frecventa retea electrica	45...66 Hz
conexiune dispozitiv	In linia de alimentare a motorului La bornele delta ale motorului
tensiune circuit de comanda	230 V - 15...10 % 50/60 Hz
consum circuit de comanda	20 W
numar iesire discreta	2
tip de iesire discreta	Ieșiri releu R1 230 V funcționare, alarmă, declanșat, oprit, pornit, gata I/D Ieșiri releu R2 230 V funcționare, alarmă, declanșat, oprit, pornit, gata I/D
curentul minim de comutare	100 mA la 12 V c.c. (ieșiri releu)

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

curent maxim de comutatie	5 A 250 V c.a. rezistiv 1 ieșiri releu 5 A 30 V c.c. rezistiv 1 ieșiri releu 2 A 250 V c.a. inductiv 0,4 20 ms ieșiri releu 2 A 30 V c.c. inductiv 7 ms ieșiri releu
numar intrare discreta	3
tip de intrare discreta	(LI1, LI2, LI3) logic, 5 mA 4.3 kOhm
tensiune de intrare discreta	24 V <= 30 V
logica de intrare discreta	Logică pozitivă LI1, LI2, LI3 < 5 V și <= 2 mA > 11 V, >= 5 mA
curent de iesire	0.4...1 Icl reglabil
intrare sonda PTC	750 Ohm
Port protocol de comunicatie	Modbus
tipul conectorului	1 RJ45
legatura date de comunicare	Serial
interfata fizica	Coborare multipla RS485
rata de transmisie	4800, 9600 sau 19200 bps
dispozitiv instalat	31
tip de protectie	Defect fază linie Protectie termica motor Protectie termica starter
marcaj	CE
tip de racire	Convectie fortata
pozitie de operare	Vertical +/- 10 grade
inaltime	265 mm
latime	130 mm
adancime	169 mm
greutate neta	7 kg
Motor power range AC-3	4...6 kW la 200...240 V 3 faze 7...11 kW la 380...440 V 3 faze
tip demaror motor	Soft starter

Mediu

compatibilitate electromagnetica	Emisii conduse și radiate nivel A conforming to IEC 60947-4-2 Unde oscilante amortizate nivel 3 conforming to IEC 61000-4-12 Descărcare electrostatică nivel 3 conforming to IEC 61000-4-2 Imunitate la tranzienți electrici nivel 4 conforming to IEC 61000-4-4 Imunitate la interferențe radioelectrice radiate nivel 3 conforming to IEC 61000-4-3 Impuls de tensiune/curent nivel 3 conforming to IEC 61000-4-5
standarde	IEC 60947-4-2
certificari produs	UL GOST CSA CCC C-Tick
rezistenta la vibratii	1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6 1.5 mm (f= 2...13 Hz) conforming to IEC 60068-2-6
rezistenta la socuri	15 gn pentru 11 ms conformitate cu IEC 60068-2-27
nivel de zgomot	45 dB
grad de poluare	Nivelul 2 conformitate cu SR EN 60664-1
umiditate relativa	0...95 % fără condens sau picături de apă conformitate cu IEC 60068-2-3

temperatura ambientală de utilizare	-10...40 °C (fără declasare) 40...60 °C (cu declasarea curentului 2.2 % per °C)
temperatura ambientală pentru depozitare	-25...70 °C
altitudinea de funcționare	<= 1000 m fără declasare > 1000...< 2000 m cu declasarea curentului cu 2.2 % pentru fiecare 100 m

Unitati de ambalare

Unitate de masura pentru prima forma de impachetare	PCE
Numar unitati in prima forma de impachetare	1
Inaltime prima forma de impachetare	28,0 cm
Latime prima forma de impachetare	22,0 cm
Lungime prima forma de impachetare	33,5 cm
Greutate prima forma de impachetare	5,597 kg
Unitate de masura pentru a doua forma de impachetare	P06
Numar unitati in a doua forma de impachetare	10
Inaltime a doua forma de impachetare	73,5 cm
Latime a doua forma de impachetare	80,0 cm
Lungime a doua forma de impachetare	60,0 cm
Greutate a doua forma de impachetare	69,7 kg

Garanție contractuală

Garantie	18 luni
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Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

[Environmental Data explicate >](#)

[Cum evaluam sustenabilitatea produselor >](#)

Use Better

Materiale si ambalare	
Pachet cu carton reciclabil	Nu
Ambalaj fara plastic	Nu
Directiva RoHS UE	Conformitate proactiva (Produs in afara domeniului de aplicare a EU RoHS)
Numar SCIP	7f28cbce-306d-4c94-ba04-b506c5522d63
Regulamentul REACH	Declaratia REACH
Regulamentul RoHS China	Declaratia RoHS China

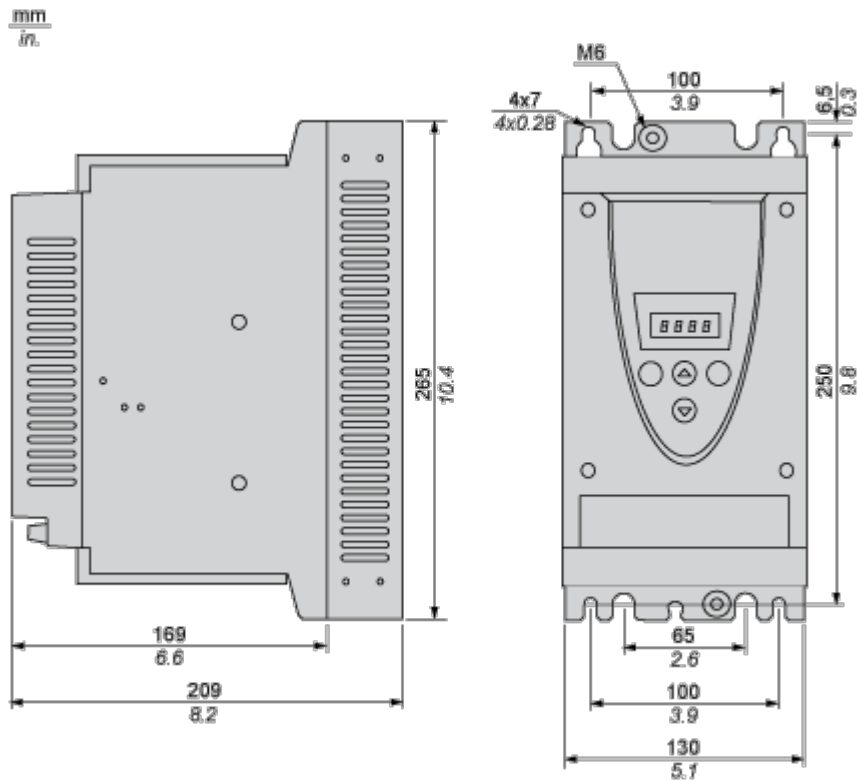
Use Again

Reambalare si refabricare	
DEEE	 Produsul trebuie sa fie eliminat de pe piata din Uniunea Europeana dupa colectarea specifica a deseurilor si sa nu ajunga niciodata in pubele de gunoi
Preluare la sfarsitul duratei de viata	No

Dimensions Drawings

Frame Size A

Dimensions



Mounting and Clearance

Precautions

Standards

The Altistart 22 soft starter is compliant with pollution Degree 2 as defined in NEMA ICS1-1 or IEC 60664-1. For environment pollution degree 3, install the Altistart 22 soft starter inside a cabinet type 12 or IP54.



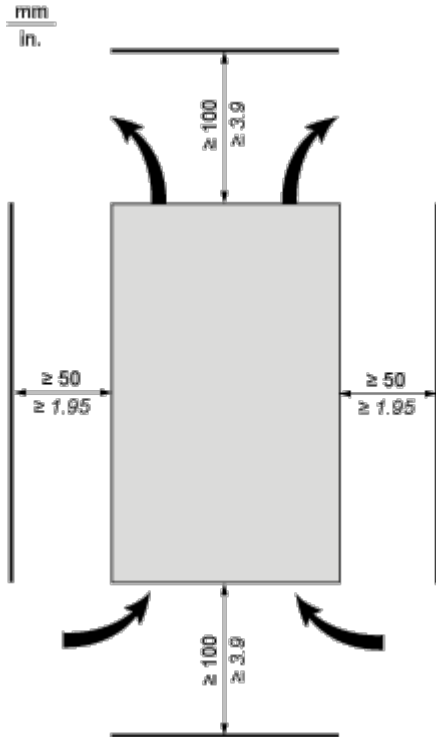
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

ATS22 soft starters are open devices and must be mounted in a suitable enclosure.

Failure to follow these instructions will result in death or serious injury.

Air Circulation

Leave sufficient free space to help the air required for cooling purposes to circulate from the bottom to the top of the unit.



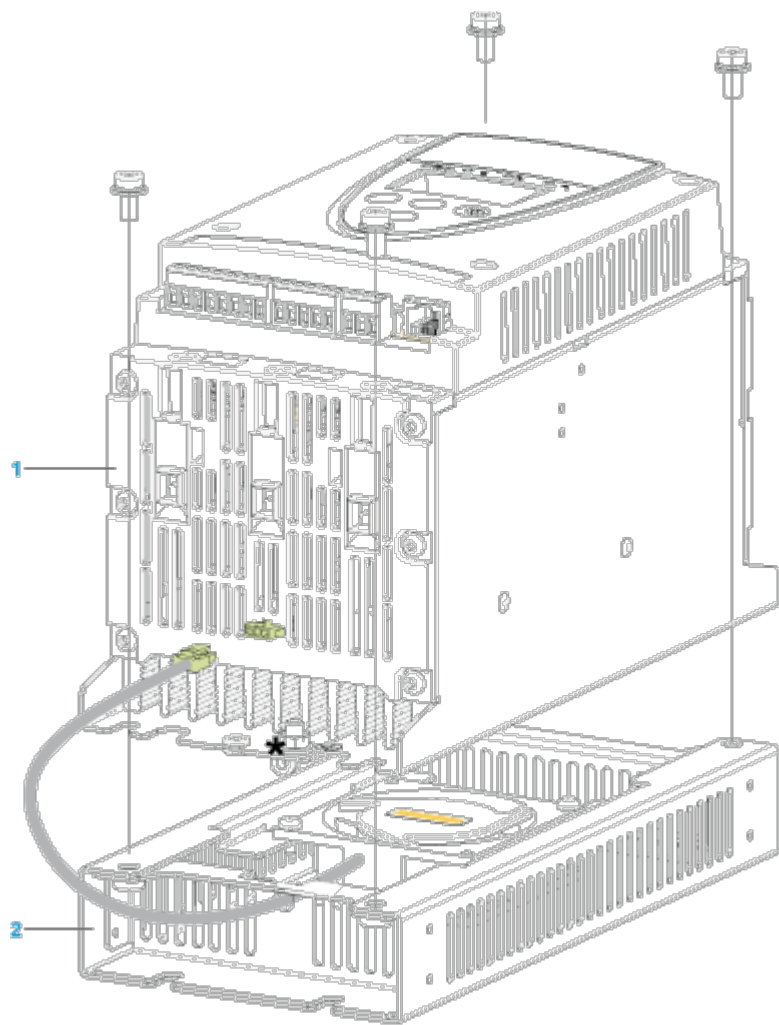
Overheating

To avoid the soft starter to overheat, respect the following recommendations:

- Mount the Altistart 22 Soft Starter within $\pm 10^\circ$ of vertical.
- Do not locate the Altistart 22 Soft Starter near heat radiating elements.
- Electrical current through the Altistart 22 Soft Starter will result in heat losses that must be dissipated into the ambient air immediately surrounding the soft starter. To help prevent a thermal fault, provide sufficient enclosure cooling and/or ventilation to limit the ambient temperature around the soft starter.
- If several soft starters are installed in a control panel, arrange them in a row. Do not stack soft starters. Heat generated from the bottom soft starter can adversely affect the ambient temperature around the top soft starter.

Mounting

Connection Between the Fan and the Altistart 22 Soft Starter



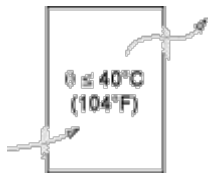
- 1 Altistart 22 Soft Starter
- 2 Fan

Wall mounted or Floor-standing Enclosure with IP 23 Degree of protection

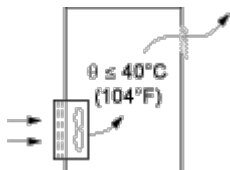
Introduction

To help proper air circulation in the soft starter, grilles and forced ventilation can be installed.

Ventilation Grilles



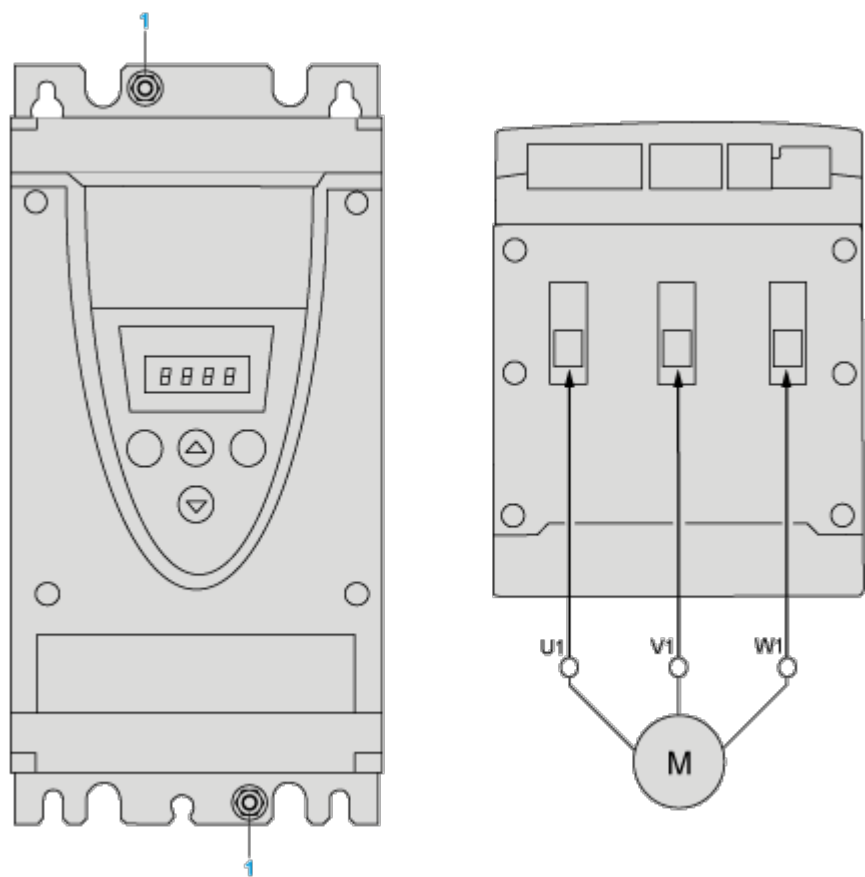
Forced Ventilation Unit



Connections and Schema

Power Terminal

Cage Style



1 Ground connection

Power connections, minimum and maximum wiring capabilities, tightening torque

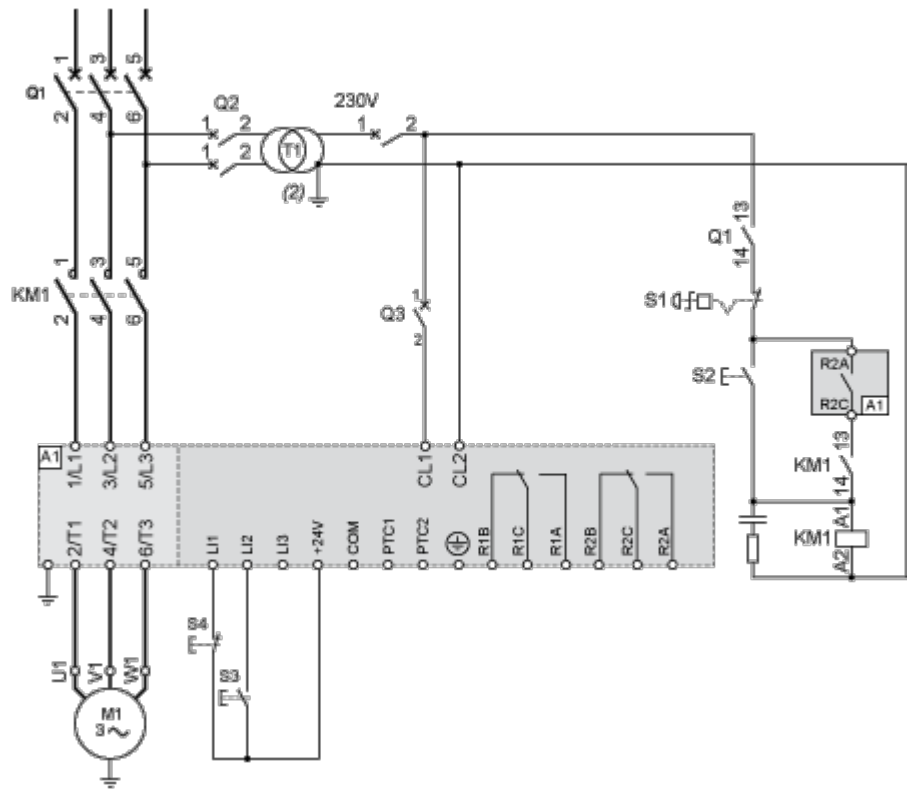
			IEC cable	UL cable
Power supply and output to motor	Size/gauge	min	2.5 mm	12 AWG
		max	16 mm	4 AWG
	Tightening torque	min	3 N.m	26.25 lb.in
		max	3 N.m	26.25 lb.in
	Strip length		10 mm	0.4 in.

Power connections, minimum required wiring section

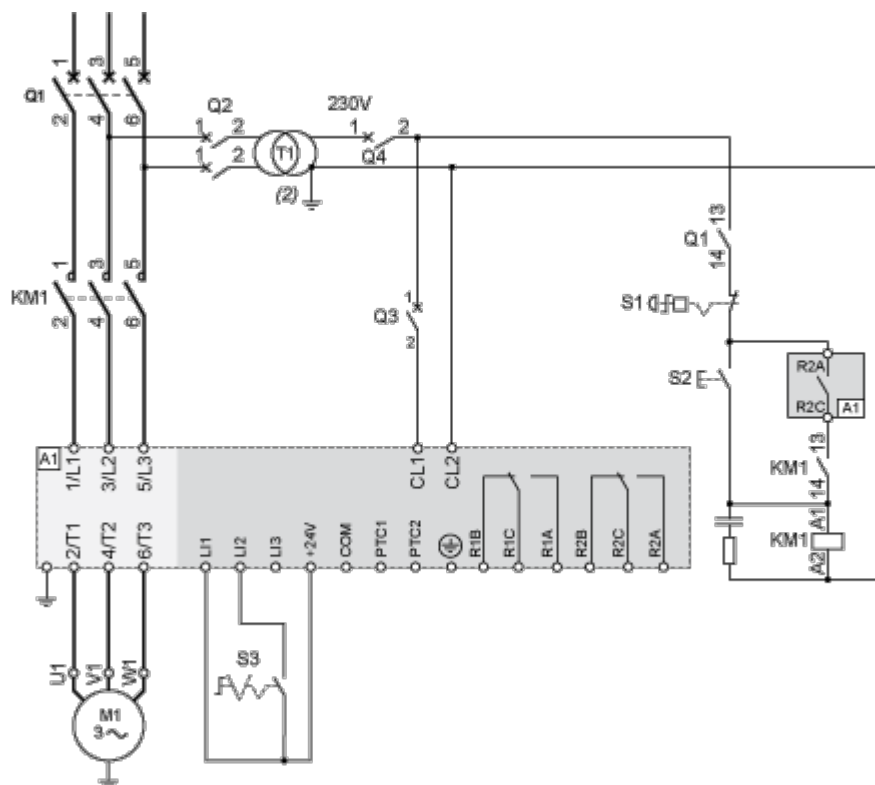
IEC cable mm² (Cu 70°C/158°F) (1)	UL cable AWG (Cu 75°C/167°F) (1)
2.5	10

230 Vac control, logic Inputs (LI) 24 Vdc, 3-wire control

With Line Contactor, Freewheel or Controlled Stop



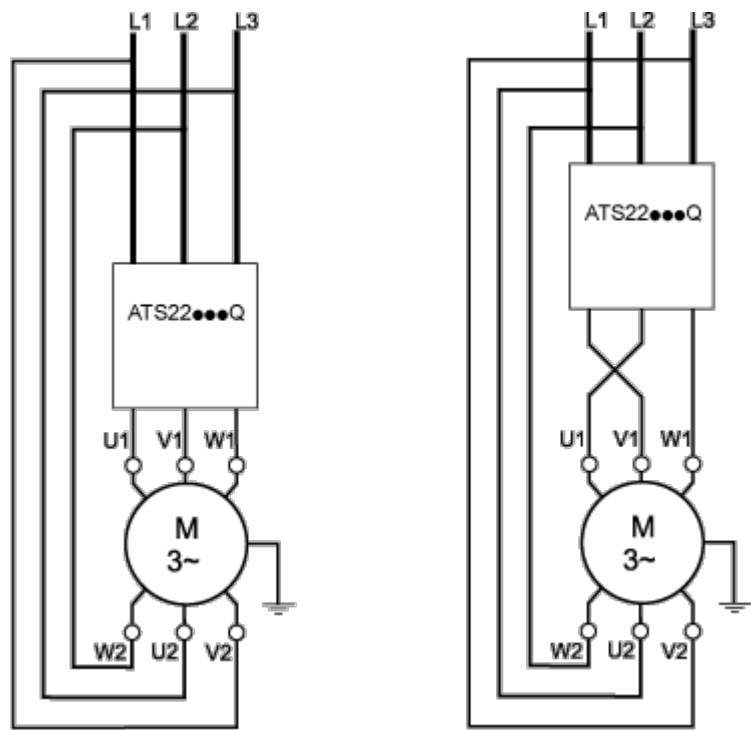
230 Vac control, logic Inputs (LI) 24 Vdc, 2-wire control, freewheel stop



Connection in the motor delta winding in series with each winding

Wiring

ATS22 soft starters connected to motors with the delta connections can be inserted in series in the motor windings. The following wiring requires particular attention. It is documented in the Altistart 22 Soft start - soft stop unit user manual. Please contact Schneider Electric commercial organisation for further informations.



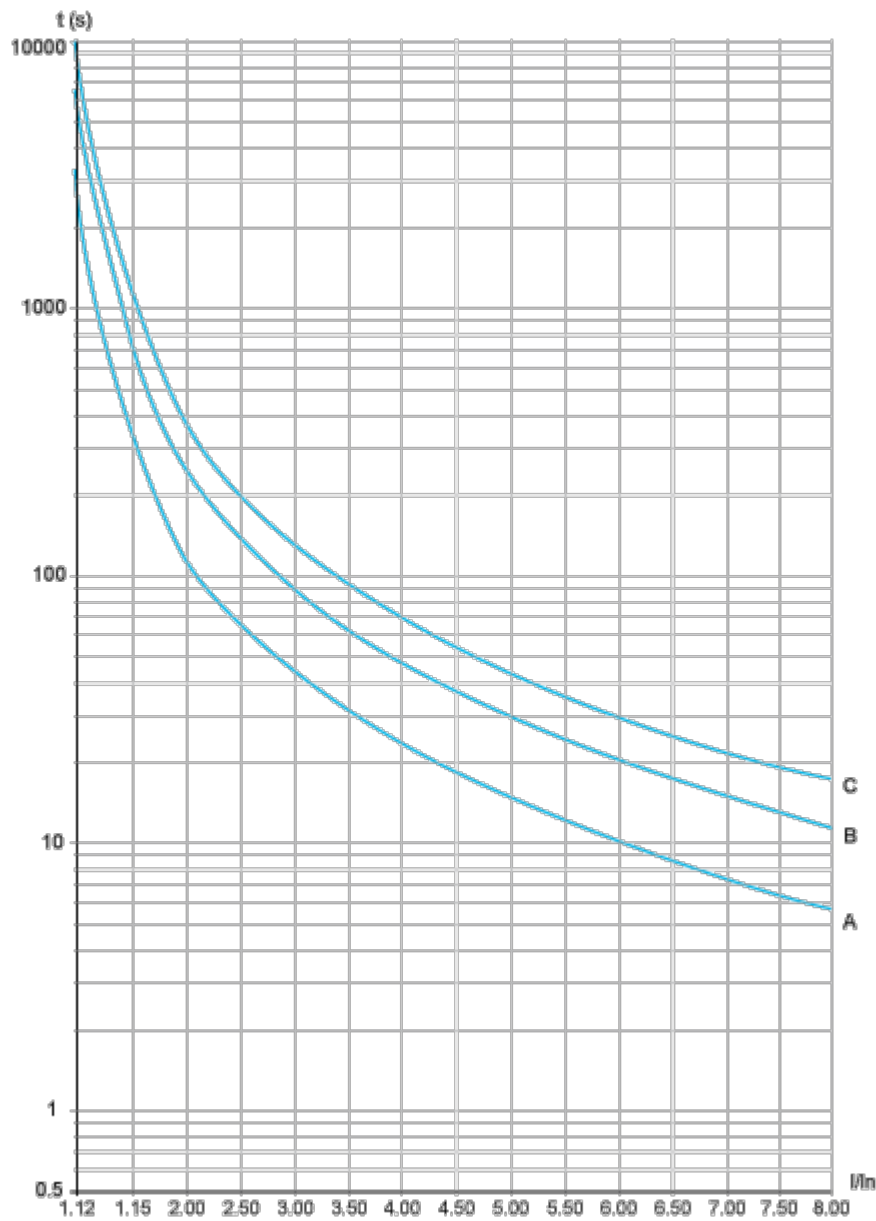
Example

A 400 V - 110 kW motor with a line current of 195 A (nominal current for the delta connection). The current in each winding is equal to $195/1.5$ or 130 A. The rating is determined by selecting the soft starter with a permanent nominal current (ICL) just above this current.

Performance Curves

Motor Thermal Protection - Cold Curves

Curves



- A Class 10
- B Class 20
- C Class 30

Trip time for a Standard Application (Class 10)

3.5 In
32 s

Trip time for a Severe Application (Class 20)

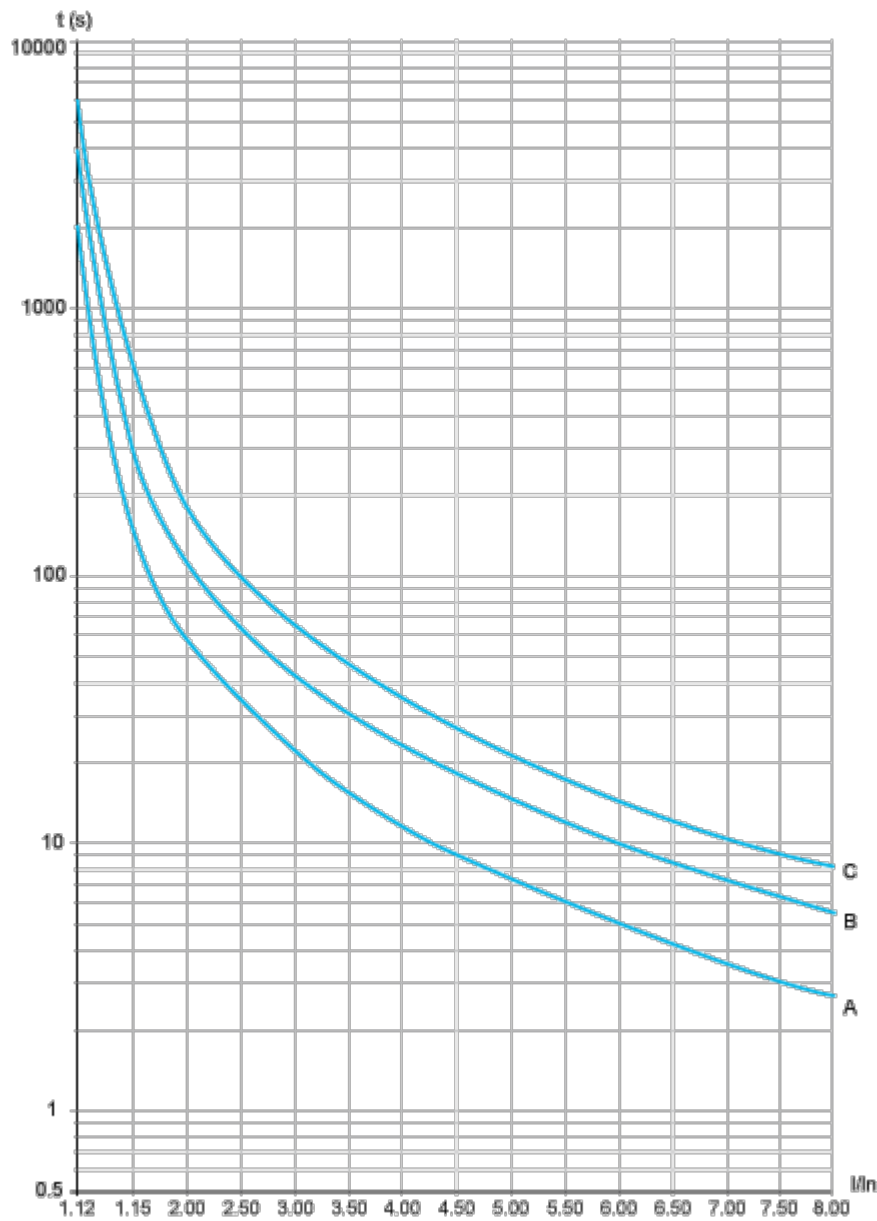
3.5 In
63 s

Trip time for a Severe Application (Class 30)

3.5 In
95 s

Motor Thermal Protection - Warm Curves

Curves



- A Class 10
- B Class 20
- C Class 30

Trip time for a Standard Application (Class 10)

3.5 In
16 s

Trip time for a Severe Application (Class 20)

3.5 In

32 s

Trip time for a Severe Application (Class 30)

3.5 In

48 s

Image of product / Alternate images

Alternative

