

Product data sheet

Specifications



soft starter for asynchronous motor,
Altistart 22, control 110V, 208 to
575V, 3 to 15hp

ATS22D17S6U

Product availability: Stock - Normally stocked in distribution facility

Price*: 735.60 USD

Main

Range Of Product	Altistart 22
Product Or Component Type	Soft starter
Product Destination	Asynchronous motors
Product Specific Application	Pumps and fans
Component Name	ATS22
Phase	3 phase
[Us] Rated Supply Voltage	208...600 V - 15...10 %
Maximum Horse Power Rating	10 hp 460 V 15 hp 575 V 3 hp 208 V 5 hp 230 V
Factory Setting Current	14 A
Power Dissipation In W	39 W for standard applications
Utilisation Category	AC-53A
Type Of Start	Start with torque control (current limited to 3.5 In)
Icl Starter Rating	17 A connection in the motor supply line for standard applications
Ip Degree Of Protection	IP20

Complementary

Assembly Style	With heat sink
Function Available	Internal bypass
Supply Voltage Limits	177...660 V
Supply Frequency	50...60 Hz - 10...10 %
Network Frequency	45...66 Hz
Device Connection	In the motor supply line
[Uc] Control Circuit Voltage	110 V - 15...10 % 50/60 Hz
Control Circuit Consumption	20 W
Discrete Output Number	2
Discrete Output Type	Relay outputs R1 230 V running, alarm, trip, stopped, not stopped, starting, ready C/ O Relay outputs R2 230 V running, alarm, trip, stopped, not stopped, starting, ready C/ O
Minimum Switching Current	100 mA 12 V DC relay outputs)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum Switching Current	5 A 250 V AC resistive 1 relay outputs 5 A 30 V DC resistive 1 relay outputs 2 A 250 V AC inductive 0.4 20 ms relay outputs 2 A 30 V DC inductive 7 ms relay outputs
Discrete Input Number	3
Discrete Input Type	LI1, LI2, LI3) logic, 5 mA 20 kOhm
Discrete Input Voltage	110 V <= 121 V
Discrete Input Logic	Positive logic LI1, LI2, LI3 < 20 V <= 15 mA > 79 V, <= 2 mA
Output Current	0.4...1 Icl adjustable
Ptc Probe Input	750 Ohm
Communication Port Protocol	Modbus
Connector Type	1 RJ45
Communication Data Link	Serial
Physical Interface	RS485 multidrop
Transmission Rate	4800, 9600 or 19200 bps
Installed Device	31
Protection Type	Phase failure line External thermal protection motor External thermal protection starter
Marking	CE
Type Of Cooling	Forced convection
Operating Position	Vertical +/- 10 degree
Height	10.43 in (265 mm)
Width	5.12 in (130 mm)
Depth	6.65 in (169 mm)
Net Weight	15.43 lb(US) (7 kg)

Environment

Electromagnetic Compatibility	Conducted and radiated emissions level A IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Voltage/current impulse level 3 IEC 61000-4-5
Standards	IEC 60947-4-2
Product Certifications	UL GOST CCC CSA C-tick
Vibration Resistance	1 gn 13...200 Hz)IEC 60068-2-6 1.5 mm 2...13 Hz)IEC 60068-2-6
Shock Resistance	15 gn 11 ms IEC 60068-2-27
Noise Level	45 dB
Pollution Degree	Level 2 IEC 60664-1
Relative Humidity	0...95 % without condensation or dripping water IEC 60068-2-3
Ambient Air Temperature For Operation	14...104 °F (-10...40 °C) without derating) 104...140 °F (40...60 °C) with current derating 2.2 % per °C)

Ambient Air Temperature For Storage	-13...158 °F (-25...70 °C)
Operating Altitude	<= 3280.84 ft (1000 m) without derating > 3280.84...< 6561.68 ft (> 1000...< 2000 m) with current derating of 2.2 % per additional 100 m

Ordering and shipping details

Category	US1CP1G22576
Discount Schedule	CP1G
Gtin	3606480167379
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	12.20 in (31.0 cm)
Package 1 Width	9.25 in (23.5 cm)
Package 1 Length	14.17 in (36.0 cm)
Package 1 Weight	18.08 lb(US) (8.2 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	10
Package 2 Height	28.94 in (73.5 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	209.44 lb(US) (95.0 kg)

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

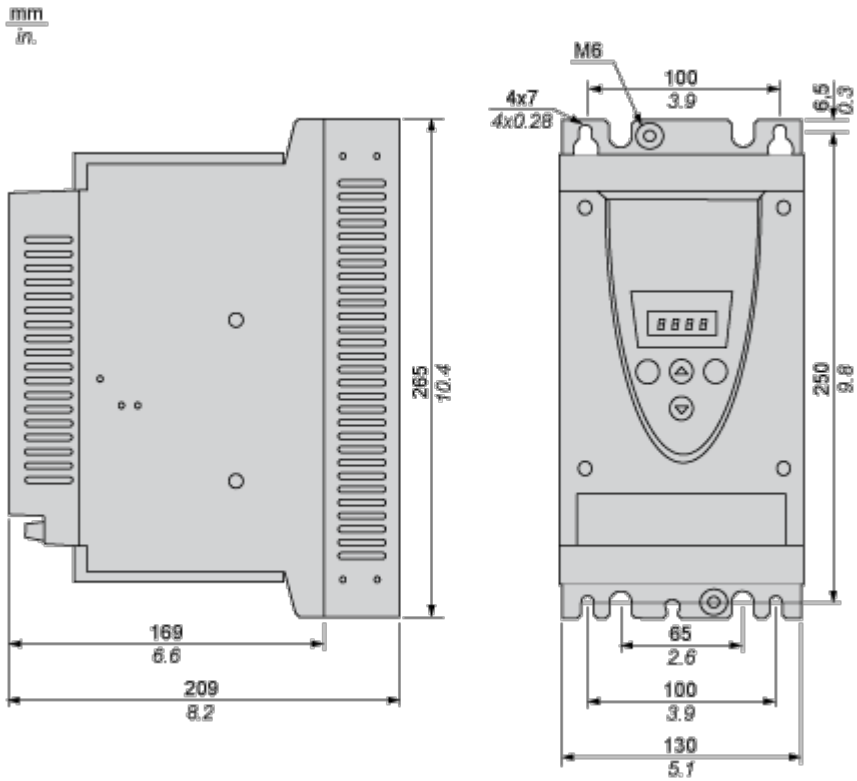
Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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.



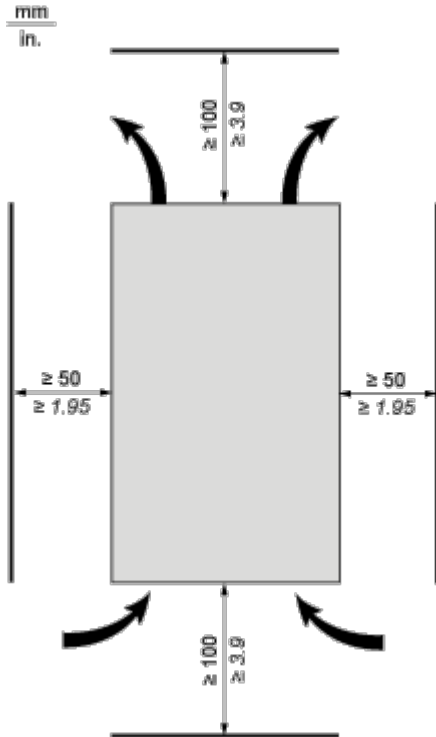
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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



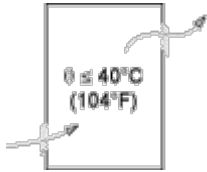
- 1 Altistart 22 Soft Starter
- 2 Fan

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

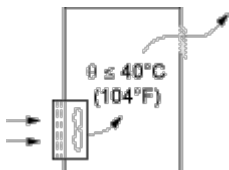
Introduction

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

Ventilation Grilles



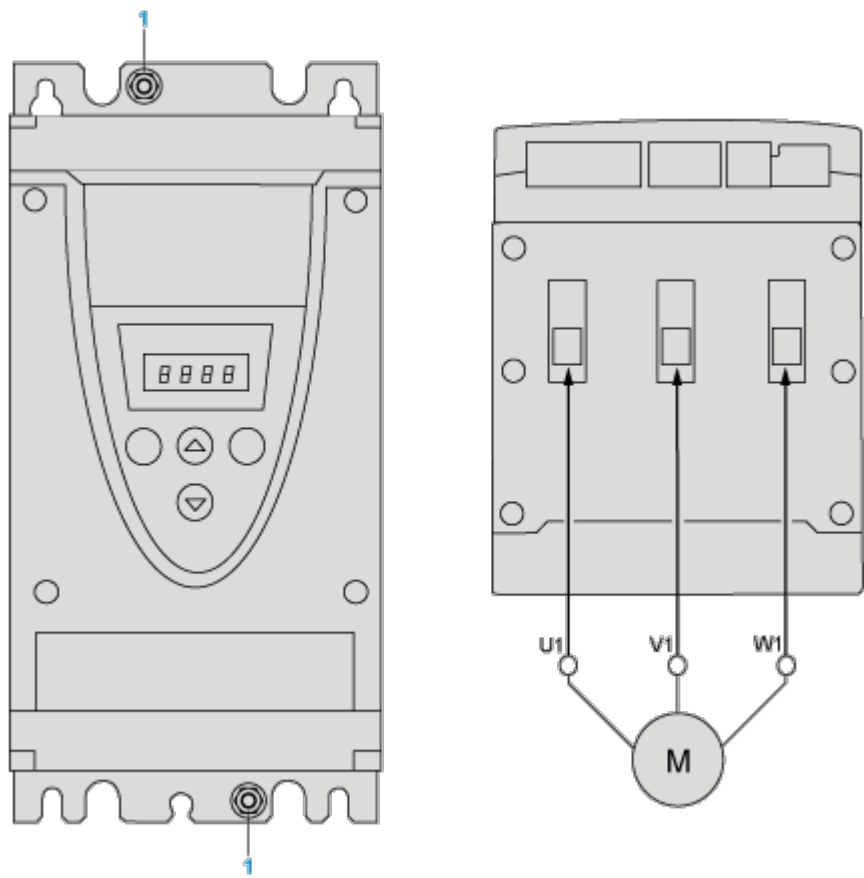
Forced Ventilation Unit



Connections and Schema

Power Terminal

Cage Style



1 Ground connection

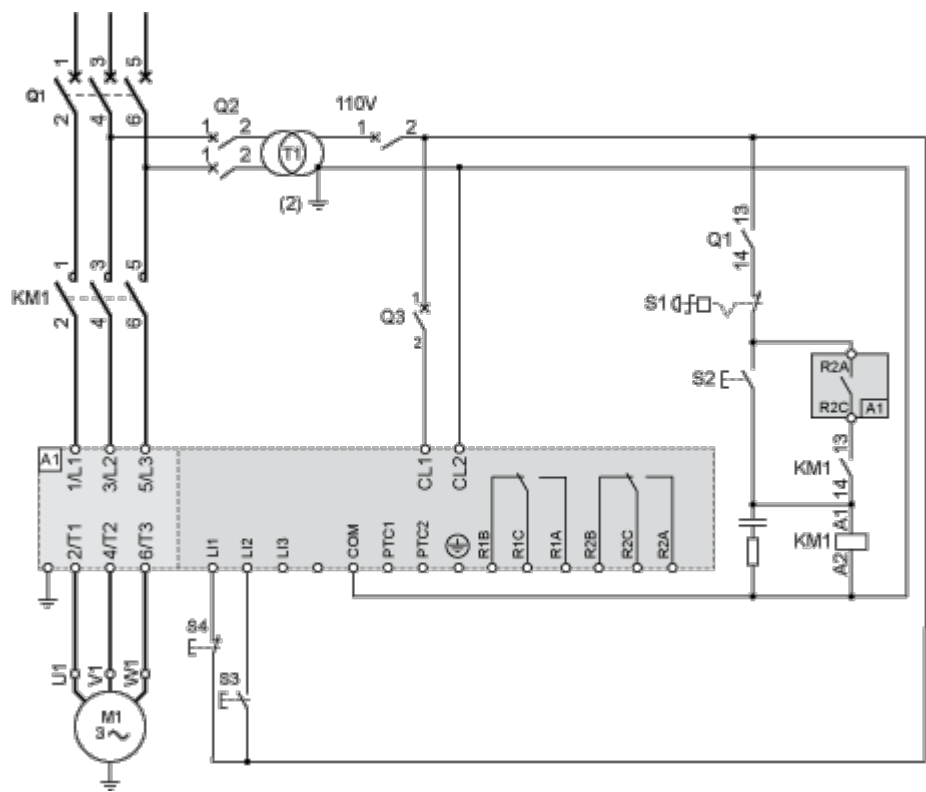
Power connections, minimum and maximum wiring capabilities, tightening torque

			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.

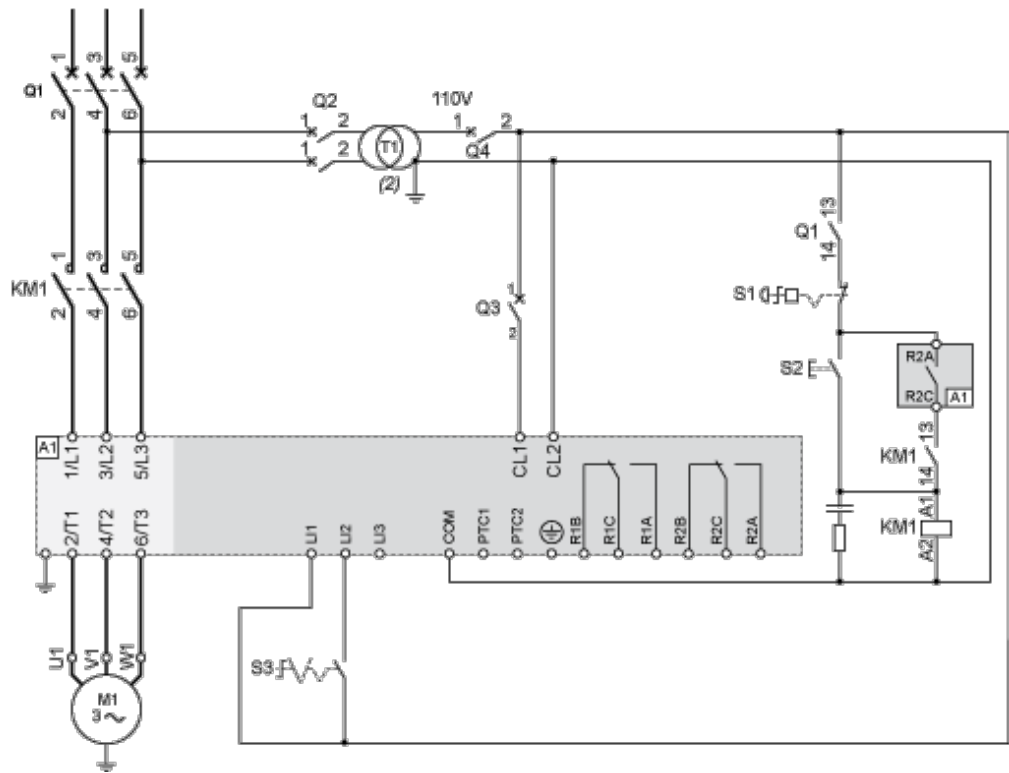
Power connections, minimum required wiring section

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

110 Vac control, Logic Inputs (LI) 110 Vac, 3-wire control



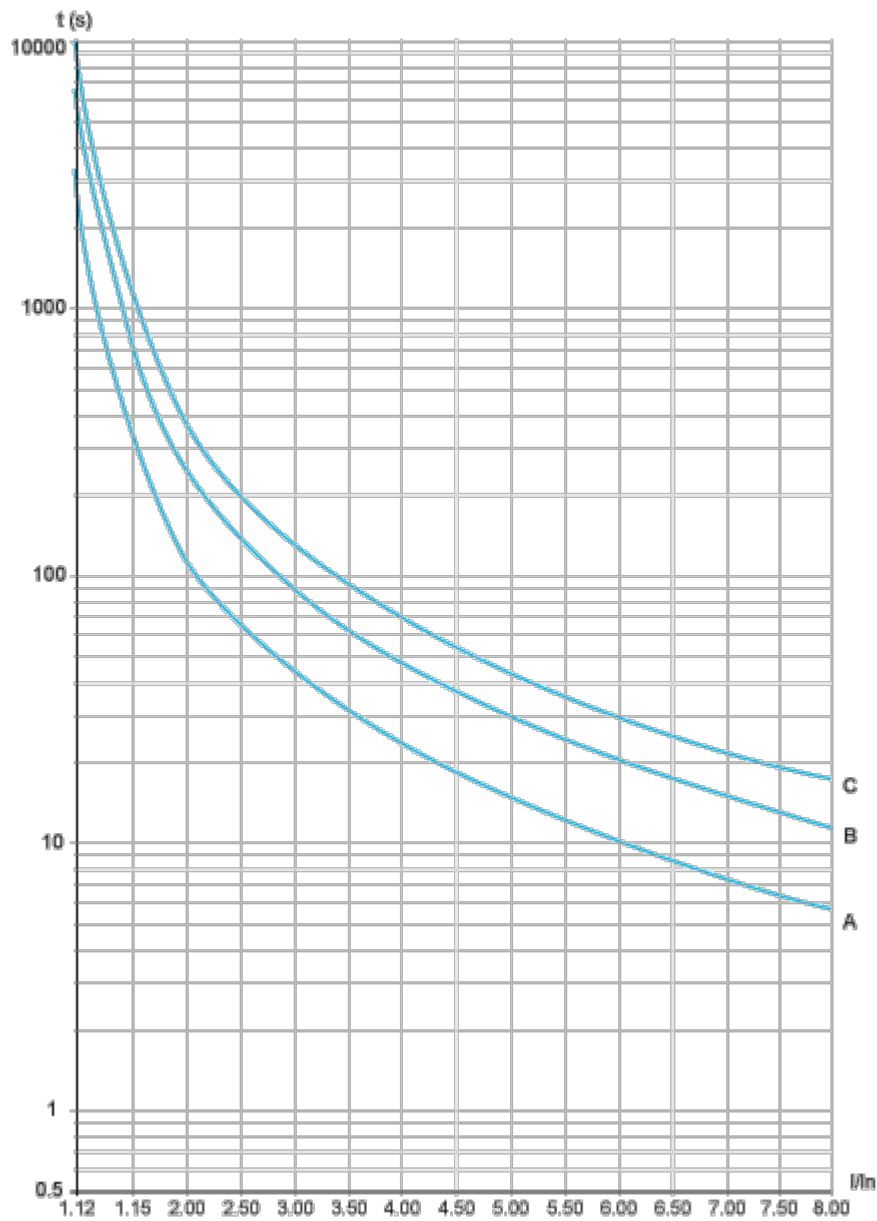
110 Vac control, Logic Inputs (LI) 110 Vac, 2-wire control, freewheelstop



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)

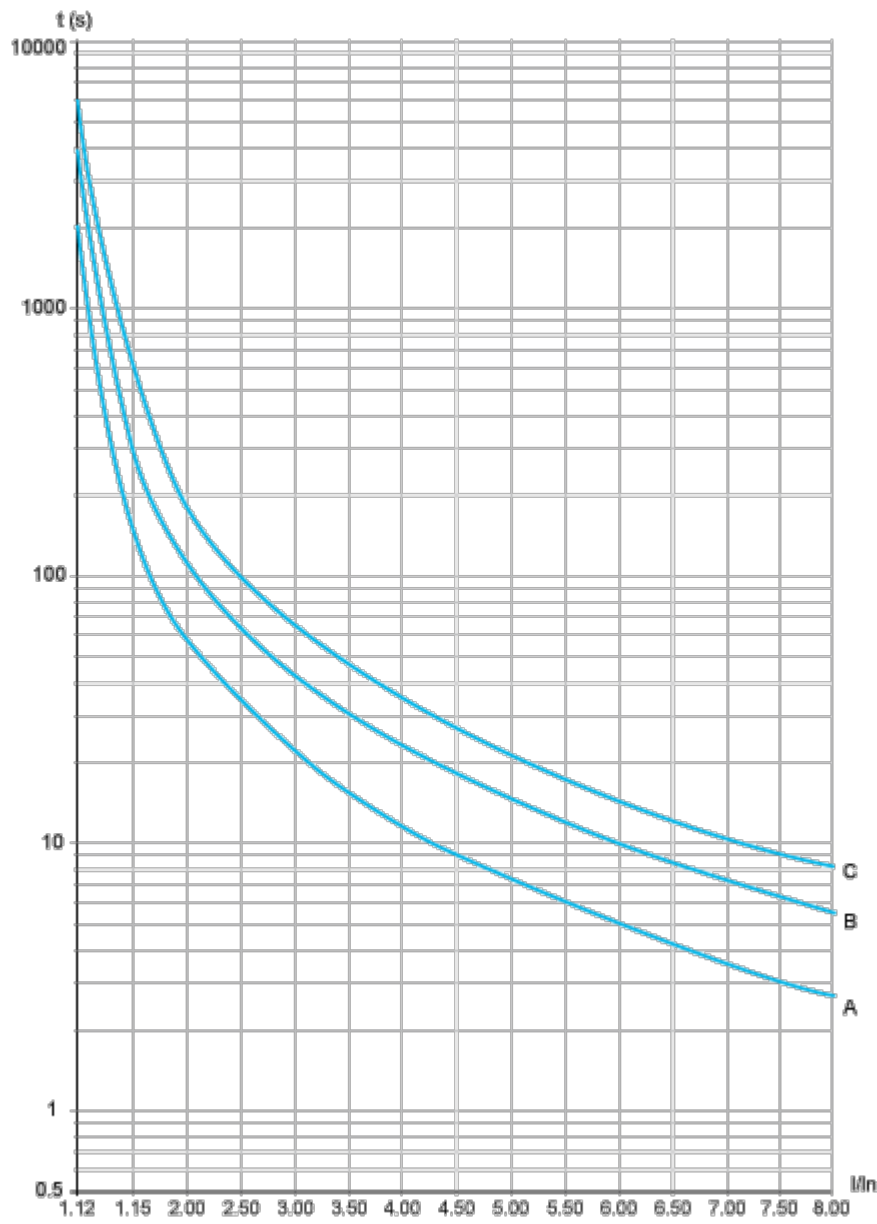
3.5 In
63 s

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