Product data sheet
Characteristics

ATS22D47Q
meki upuštač–ATS22–upravljanje 220V-snaga 230V(11kW)/400...440V(22kW)

Osnovno

Serija proizvoda	Altistart 22
Vrsta proizvoda ili dijela	Uređaj za meki zalet
Namjena proizvoda	Asinkroni motori
Specifična namjena proizvoda	Pumpe i ventilatori
Naziv komponente	ATS22
Broj mrežnih faza	3 faze
[Us] nazivni napon napajanja	230...440 V - 15...10 %
Snaga motora kW	11 KW 230 V 22 KW 400 V 22 kW 440 V
Tvornički postavljena struja	42 A
Disipirana snaga u W	48 W za standardne aplikacije
Kategorija namjene	AC-53A
Vrsta starta	Start sa upravljanjem momentom (struja ograničena na 3,5 In)
Razred IcL pokretača	47 Azakonekcija u napajanju motora za standardne aplikacije
IP stupanj zaštite	IP20

Dodatno

Način sastavljanja	Sa radijatorom
Dostupna funkcija	Unutarnje premošćenje
Limiti napona napajanja	195…484 V
Frekvencija napajanja	50...60 Hz - 10...10 %
Mrežna frekvencija	45...66 Hz
Konekcija uređaja	Prema stezaljkama trokuta motora U motorskom napajanju
[Uc] napon upravljačkog kruga	230 V - 15...10 % 50/60 Hz
Potrošnja upravljačkog kruga	20 W
Broj diskretnih izlaza	2
Tip diskretnog izlaza	Relejni izlazi R1 230 V u radu, alarm, trip, zaustavljen, nije zaustavljen, pokretanje, spreman preklopni (C/O) Relejni izlazi R2 230 V u radu, alarm, trip, zaustavljen, nije zaustavljen, pokretanje, spreman preklopni (C/O)
Minimalna struja isklapanja	100 mA 12 V DC Relejni izlazi)
Maksimalna struja sklapanja	5 A 250 V AC Ohmski 1 Relejni izlazi 5 A 30 V DC Ohmski 1 Relejni izlazi 2 A 250 V AC Induktivan 0,4 20 ms Relejni izlazi 2 A 30 V DC Induktivan 7 ms Relejni izlazi
Broj diskretnog ulaza	3
Vrsta diskretnog ulaza	ULI1, LI2, LI3) logika, 5 mA 4.3 kOhm
Napon diskretnog ulaza	24 V <= 30 V
Logika diskretnog ulaza	Pozitivna logika LI1, LI2, LI3u Stanju 0:< 5 Vi<= 2 mAu Stanju 1:> 11 V, >= 5 mA
Izlazna struja	0.4...1 Icl podesivo
Ulaz PTC sonde	750 Ohm
Protokol komunikacijskog priključka	Modbus
Vrsta konektora	1 RJ45
Komunikacijska podatkovna veza	Serijski

Fizičko sučelje	RS485 multidrop
Stopa prijenosa	4800, 9600 or 19200 bps
Intalirani uređaj	31
Vrsta zaštite	Kvar faze: Linija Termalna zaštita: Za motore Termalna zaštita: Starter
Označavanje	CE
Tip hlađenja	Prisiljena konvekcija
Pozicija rada	Vertikalno +/- 10 stupnja
Visina	265 mm
Šlrina	130 mm
Dubina	169 mm
Neto masa proizvoda	7 kg
Motor power range AC-3	7…11 KWkod200…240 V 3 faze 15…25 kWkod380…440 V 3 faze
Vrsta motorskog pokretača	Uređaj za mekani zalet

Okolina

Elektromagnetska kompatibilnost	Provedene i zračene emisije Nibo A u sukladnosti sa IEC 60947-4-2 Prigušeni oscilirajući valovi Razina 3 u sukladnosti sa IEC 61000-4-12 Elektrostatsko pražnjenje Razina 3 u sukladnosti sa IEC 61000-4-2 Imunost na električne tranzijente Nivo 4 u sukladnosti sa IEC 61000-4-4 Imunost na zračene radio smetnje Razina 3 u sukladnosti sa IEC 61000-4-3 Naponski/strujni impuls Razina 3 u sukladnosti sa IEC 61000-4-5
Standardi	IEC 60947-4-2
Certifikati proizvoda	CCC[RETURN]C-Tick[RETURN]UL[RETURN]GOST[RETURN]CSA
Otpornost na vibracije	1 gn (f= 13…200 Hz) u sukladnosti sa IEC 60068-2-6 1.5 mm (f= 2…13 Hz) u sukladnosti sa IEC 60068-2-6
Otpornost na udarce	15 gn za 11 ms u sukladnosti sa IEC 60068-2-27
Razina buke	45 dB
Stupanj onečišćenja	Nivo 2 u sukladnosti sa IEC 60664-1
Relativna vlažnost	0…95 % Bez kondenzacije ili kapanja vode u sukladnosti sa IEC 60068-2-3
Okolna temepratura zraka potrebna za rad	-10…40 °C (Bez umanjenja nazivnih vrijednosti) 40…60 °C (s umanjivanjem nazivne vrijednosti struje od 2,2 % po °C)
Okolišna temperatura zraka pri skladištenju	-25…70 °C
Radna visina	<= 1000 m Bez umanjenja nazivnih vrijednosti > 1000...< 2000 m s umanjenjem nazivne vrijednosti struje od 2,2 % na dodatnih 100 m

Broj pakirnih jedinica

Mjerna jedinica Paketa 1	PCE
Broj Jedinica u Paketu 1	1
Paket 1 Visina	26,924 cm
Paket 1 Širina	22,098 cm
Paket 1 Dužina	33,274 cm
Paket 1 Težina	5,606 kg
Mjerna jedinica Paketa 2	P06
Broj Jedinica u Paketu 2	10
Paket 2 Visina	73,5 cm
Paket 2 Širina	80 cm
Paket 2 Dužina	60 cm
Paket 2 Težina	69,76 kg

Održivost ponude

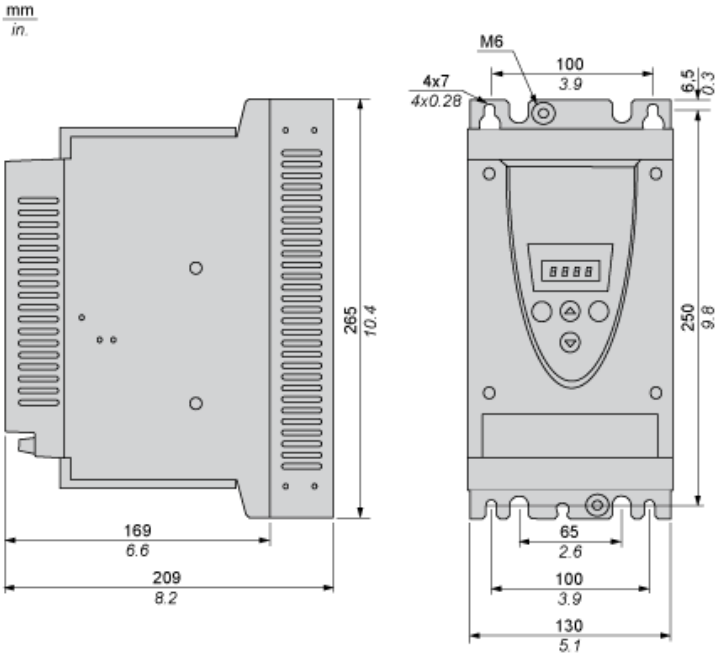
Uredba REACh	Izjava REACh
Direktiva EU RoHS	Proaktivna sukladnost (proizvod izvan zakonskog okvira direktive EU RoHS)
Bez žive	Da
Propis RoHS za Kinu	Izjava RoHS Za Kinu
Informacije o RoHS izuzeću	Da
WEEE	Proizvod se na tržištima EU mora odlagati u skladu sa specifičnim propisima o prikupljanju otpada; nikako se ne smije odlagati s komunalnim otpadom.

Ugovorno jamstvo

Jamstvo	18 months

Frame Size A

Dimensions



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.

⚠ DANGER

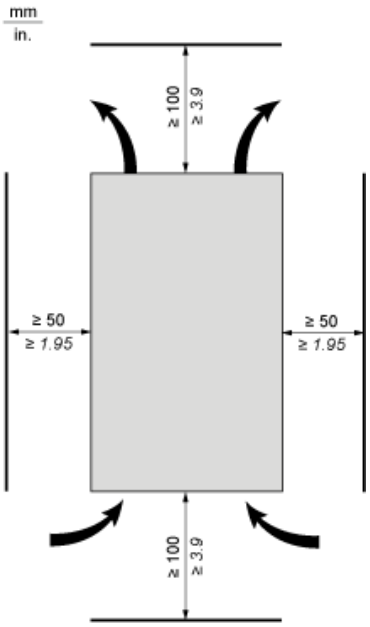
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.



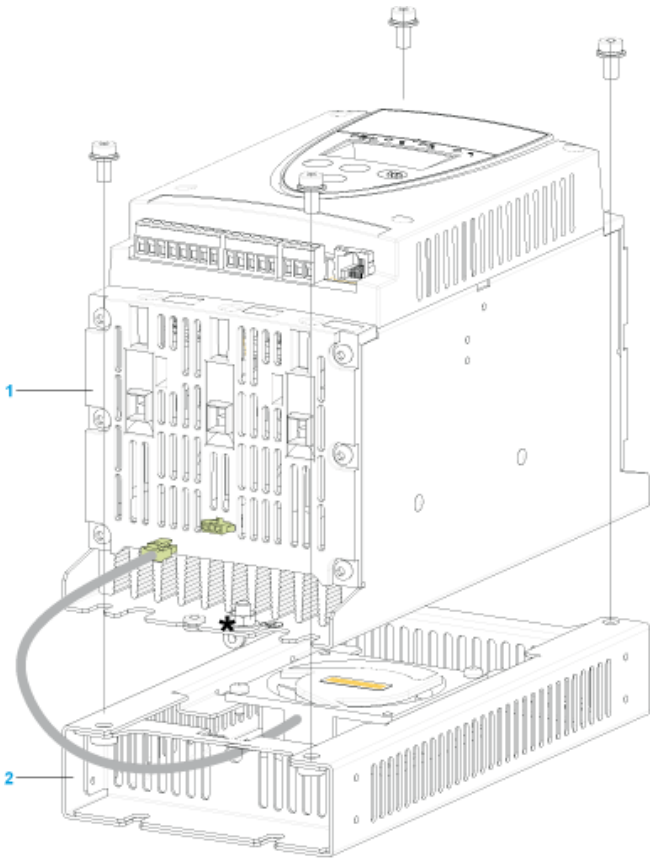
Overheating

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

- Mount the Altistart 22 Soft Starter within ± 10° 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



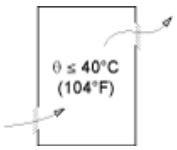
1 Altistart 22 Soft Starter
2 Fan

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

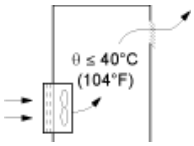
Introduction

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

Ventilation Grilles

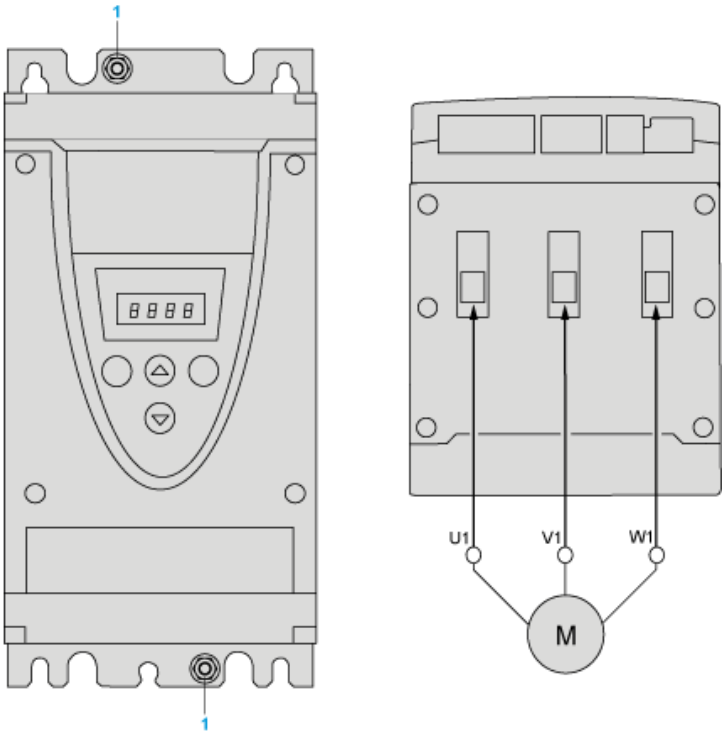


Forced Ventilation Unit



Power Terminal

Cage Style



1 Ground connection

Power connections, minimum and maximum wiring capabilities, tightening torque

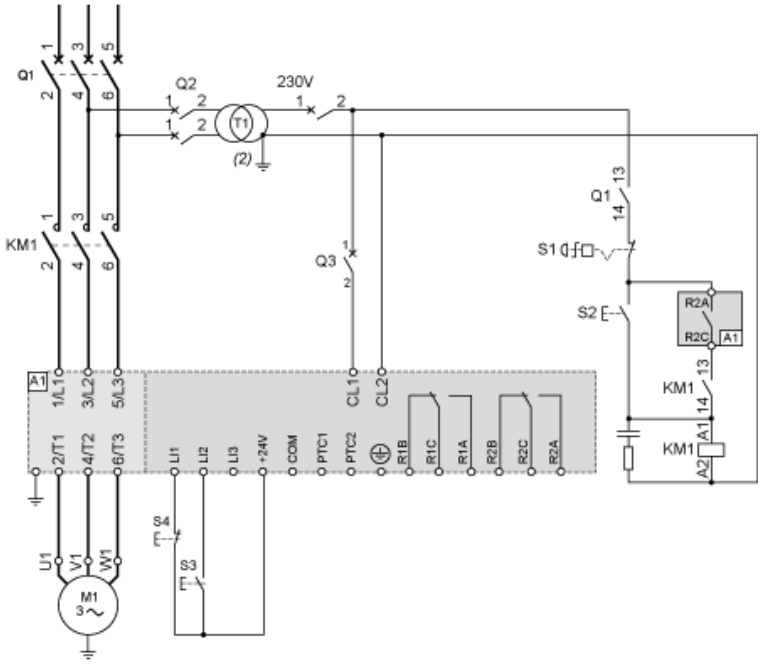
			IEC cable	UL cable
Power supply and output to motor	Size/gauge	min	2.5 mm	12 AWG
max	16 mm	4 AWG		
Tightening torque	min	3 N.m	26.25 lb.in	
max	3 N.m	26.25 lb.in		
Strip length		10 mm	0.4 in.	

Power connections, minimum required wiring section

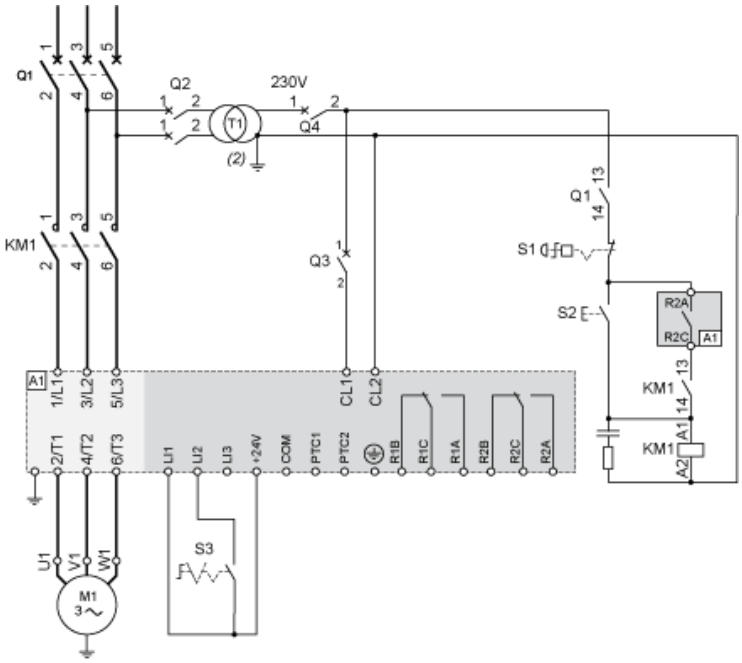
IEC cable mm² (Cu 70°C/158°F) (1)	UL cable AWG (Cu 75°C/167°F) (1)
10	6

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

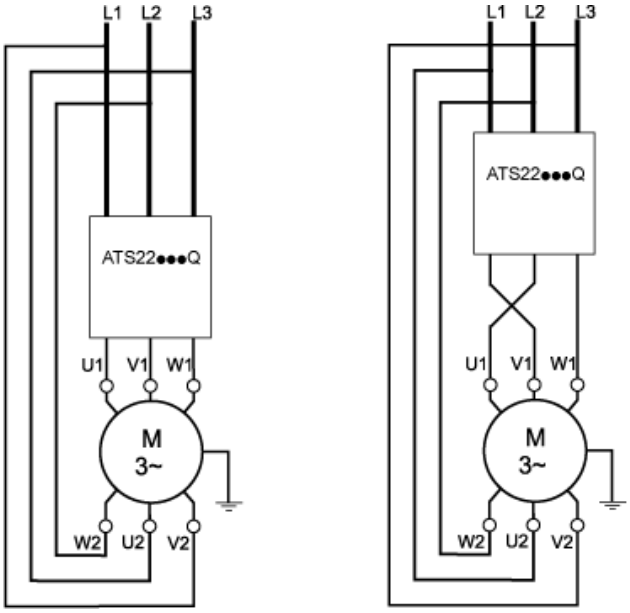


Connection in the motor delta winding in series with each winding

Wiring

ATS22 soft starters connected to motors with the delta connections can be inserted in series in the motor windings.

The following wiring requieres 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.

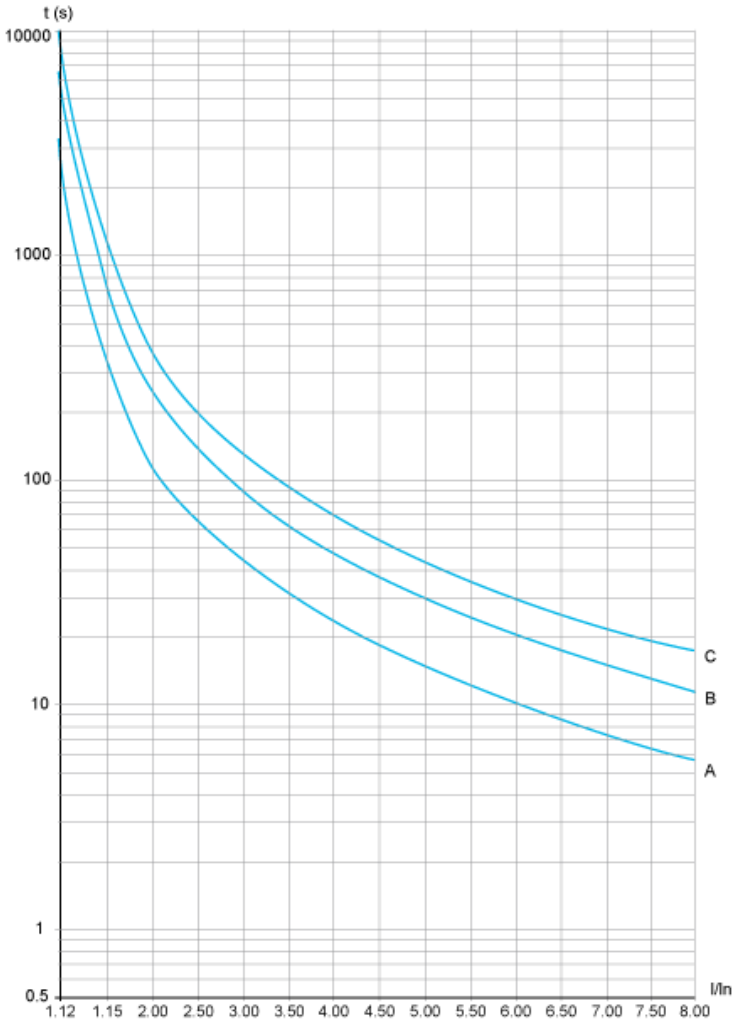


Example

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.

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

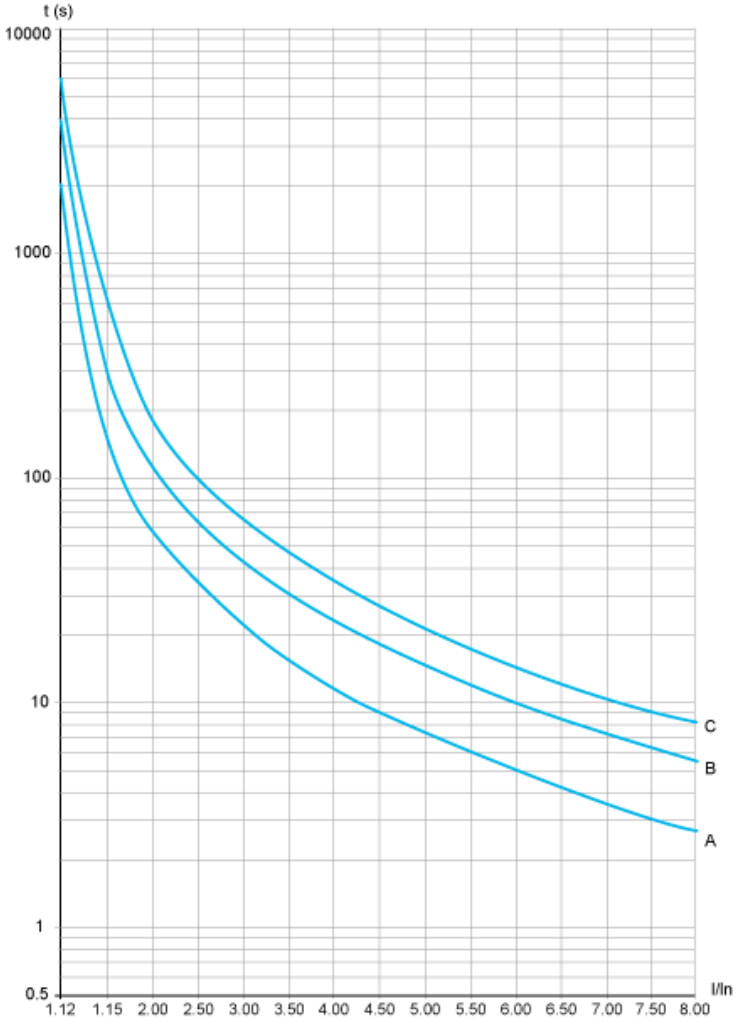
Trip time for a Severe Application (Class 20)

3.5 In
63 s

Trip time for a Severe Application (Class 30)

3.5 In
95 s

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