

SINGLE-PHASE CORE CT RANGE

CTs designed to supply analog or digital measurement instruments. Accuracy class 0.5/1/3.



General specifications

Reference standards: EN 60044-1 (ex IEC 185)

Maximum network voltage: 720 Vac

Dielectric test voltage: 3 kV/50 Hz/1 min

Frequency response: 50/60 Hz

Short-circuit thermal current (I_{th}): JVO, JVP: 80 In
JVR 86: 60 In

Dynamic current (I_{dyn}): 2.5 I_{th}

Safety factor: 5 in Class 1

Operating conditions: Temperature: -5°C to +50°C
Relative humidity: 93% at 40°C

Protection: Protection rating: IP 50
(with terminal cover supplied)
Dry winding with self-extinguishing ABS
coZvOeOriMng (UL 94 VO)

MOUNTING ACCESSORIES

Model	1 CT mounting rail	2 CT mounting rail	3 CT mounting rail
JVR	ACCE 7652	ACCE 7653	ACCE 7655
J3R 80 B	ACCE 7640		

USER SECTORS



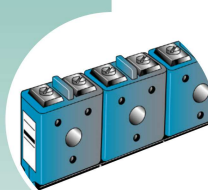
Industry



Energy transmission & distribution



Sealable cover M5 terminals with 2 grooves for dual connection on secondary



Mounting on symmetrical rail (except for JVP) or plate mounting in cabinet



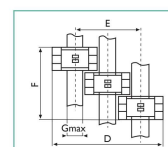
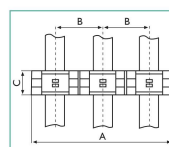
- Complete range: primary from 1 to 3,000 A and 5 A or 1 A secondary
- Totally adaptable range for specific requirements (primary, secondary, power class, frequency)

The following CTs are still available. Please contact Chauvin Arnoux Energy:

- JVR 64 and JVR 75
- JVO 12-46 / JVO 18-51 / JVO 21-64 / JVO 21-75 / JVO 32-75 / JVO 36-75 and JVO 25 CR
- JVO 32 CR and JVP 624

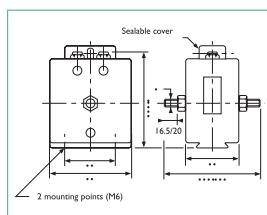
3CT MOUNTING

Model	Dimensions						
	A	B	C	D	E	F	G
JVP 1025	344	115	45	252	138	137	22
JVP 1045	404	135	45	312	178	137	42



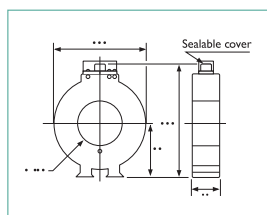
JVR 86

Ø M8/M10 > 75 A
Weight : 1.2 kg



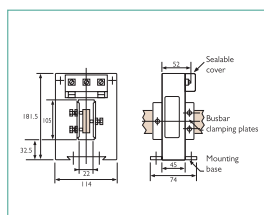
J3R 80 B

Cable Ø 66 mm
Weight : 1.6 kg



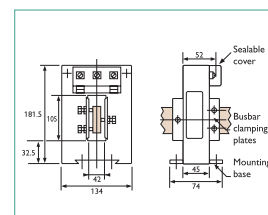
JVP 1025

Bar : 100 x 20 mm
Weight : 2 kg



JVP 1045

Bar : 100 x 40 mm
Weight : 2.5 kg



Power (VA) in class

Primary	1	3
5 A	20	30
10 A	20	30
15 A	20	30
20 A	20	30
25 A	20	30
30 A	20	30
40 A	20	30
50 A	20	30
60 A	20	30
75 A	20	30
100 A	20	30
125 A	20	30
150 A	20	30
200 A	20	30

Power (VA) in class

Primary	0.5	1	3
200 A		5	10
250 A		5	10
300 A	5	10	15
400 A	10	20	25
500 A	15	20	25
600 A	15	20	25
750 A	15	20	25
800 A	15	20	25
1000 A	15	20	25
1250 A	15	20	25
1500 A	15	20	25

Power (VA) in class

Primary	1	3
200 A		5
250 A		5
300 A	10	20
400 A	5	30
500 A	15	15
600 A	15	15
750 A	20	20
800 A	20	30
1000 A	30	30
1250 A	30	30
1500 A	30	30
2000 A	30	30
2500 A	30	30
3000 A	30	30

Power (VA) in class

Primary	1	3
300 A	5	5
400 A	5	10
500 A	10	15
600 A	15	15
750 A	20	20
800 A	20	20
1000 A	30	30
1250 A	30	30
1500 A	30	30
2000 A	30	30
2500 A	30	30
3000 A	30	30

TO ORDER

Primary	Secondary 5 A
5 A	JVRC 8742
10 A	JVRC 8743
15 A	JVRC 8744
20 A	JVRC 8745
25 A	JVRC 8746
30 A	JVRC 8747
40 A	JVRC 8748
50 A	JVRC 8749
60 A	JVRC 8750
75 A	JVRC 8751
100 A	JVRC 8752
125 A	JVRC 8753
150 A	JVRC 8754
200 A	JVRC 8755
Sealable cover	ACCE 7668

Primary	Secondary 5 A
200 A	J3RC 7514
250 A	J3RC 7524
300 A	J3RC 7525
400 A	J3RC 7528
500 A	J3RC 7527
600 A	J3RC 7529
750 A	J3RC 7526
800 A	J3RC 7531
1000 A	J3RC 7530
1250 A	J3RC 7532
1500 A	J3RC 7533
Sealable cover	ACCE 7671

Primary	Secondary 5 A
200 A	JVPT 8890
250 A	JVPT 8891
300 A	JVPT 8892
400 A	JVPT 8893
500 A	JVPT 8896
600 A	JVPT 8897
750 A	JVPT 8898
800 A	JVPT 8895
1000 A	JVPT 8899
1250 A	JVPT 8900
1500 A	JVPT 8901
2000 A	JVPT 8902
2500 A	JVPT 8921
3000 A	JVPT 8922
Mounting plate (base)	ACCE 7669
Sealable cover	ACCE 7672

Primary	Secondary 5 A
300 A	JVPU 8906
400 A	JVPU 8918
500 A	JVPU 8907
600 A	JVPU 8908
750 A	JVPU 8909
800 A	JVPU 8919
1000 A	JVPU 8910
1250 A	JVPU 8911
1500 A	JVPU 8912
2000 A	JVPU 8913
2500 A	JVPU 8920
3000 A	JVPU 8914
Mounting plate (base)	ACCE 7669
Sealable cover	ACCE 7672

CUSTOMIZED PRODUCT

	Model	Primary	Secondary	Class	Power	Frequency
	JVR 86 J3R 80 B JVP 1025 JVP 1045					
Example	JVR 86	200 A	1 A	0.5	10 VA	60 Hz

ASSOCIATED PRODUCTS

Mounting accessories

Mounting rails
1 CTn 2 CTs, 3 CTs.
page 128



PRTC

CT short-circuiter
Protection against hazards due to opening of the secondary circuit of a low, voltage measurement CT.
page 138



METERS AND
POWER MONITORS

NETWORK MONITORING
FROM LV TO HV

CURRENT TRANSFORMERS
AND SHUNTS

TRANSDUCERS

PANEL METERS AND
SYNCHROCOUPLER

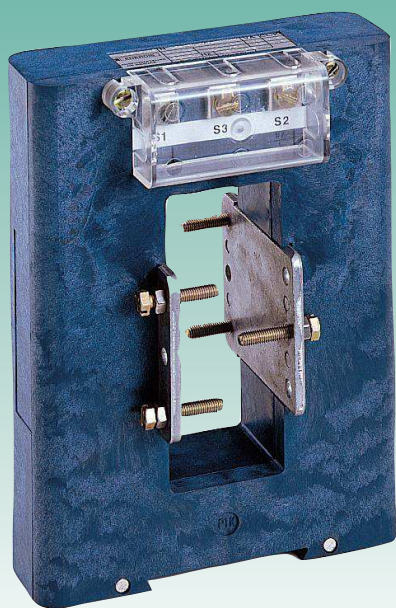
AUXILIARY RELAYS

CIVILIAN AND MILITARY
NAVAL APPLICATIONS

SERVICES AND TRAINING

JVP 1045 B

Busbar primary 100 x 40 mm



- Delivered with sealable protective cover for the secondary. Simple M5 terminals
- Direct mounting on primary busbar by means of plate and tightening screw or panel mounting with mounting plate

GENERAL SPECIFICATIONS

Reference standards: EN 60044-1 (ex-IEC 185) and NFC 42-502

Maximum network voltage: 720 Vac

Dielectric test voltage: 3 kV/50 Hz/1 min

Frequency response: 50/60 Hz

Thermal short-circuit current (I_{th}): 80 In

Dynamic current (I_{dyn}): 2.5 I_{th}

Safety factor: 10 in class 0.5

Except * SF = 6.4/10.5 and **SF = 4.7/8.2

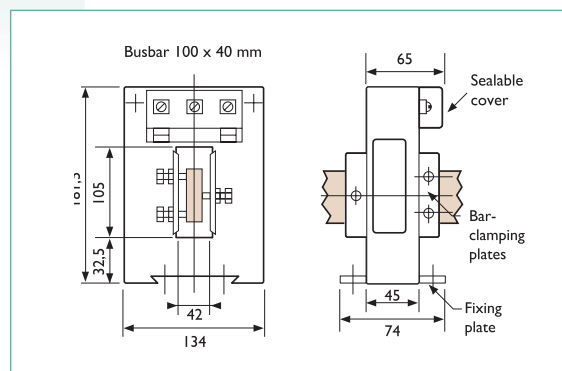
Operating conditions:

Temperature: -20°C to +60°C

Relative humidity: 93% at 40°C

Protection:

- Protection rating: IP 50
- Dry winding in self-extinguishing ABS envelope (UL 94 VO)



TO ORDER

	Power (VA) in class 0.5		Weight (kg)
	7.5	15	
Primary	Secondary 5A		
500 A		JVPA 7569	2.50
1000 A		JVPA 7573	2.50
2000 A		JVPA 7576	2.50
500-1000 A*	JVPA 7589	JVPA 7585	2.50
1000-2000 A*	JVPA 7590	JVPA 7588	2.50

JVO 40-100

Cable primary Ø 42 mm



- Delivered with sealable terminal cover for the secondary. M5 terminals with two grooves for double connection
- Mounting on symmetrical mounting rail or plate mounting

GENERAL SPECIFICATIONS

Reference standards: EN 60044-1 (ex-IEC185) and NFC 42-502

Maximum network voltage: 720 Vac

Dielectric test voltage: 3 kV/50 Hz/1 min

Frequency response: 50/60 Hz

Thermal short-circuit current (I_{th}): 80 In

Dynamic current (I_{dyn}): 2.5 I_{th}

Safety factor: 110 in class 0.5

Except * SF = 6.4/10.5 and **SF = 4.7/8.2

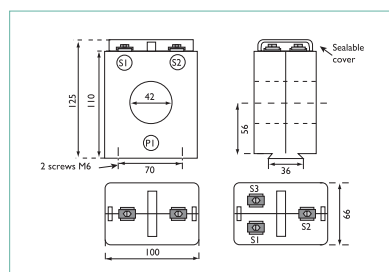
Operating conditions:

Temperature: -5 °C to +50 °C

Relative humidity: 93 % at 40 °C

Protection:

- Protection rating: IP 50
- Dry winding in self-extinguishing ABS envelope (UL 94 VO)



TO ORDER

Primary	Power (VA) in class 0.5			Weight (kg)
	15 Secondary 2.5 A	7.5 Secondary 5 A	15 Secondary 5 A	
200 A	JVON 7103		JVON 7100	0.97
500 A			JVON 7101	0.97
200-500 A		JVON 7104	JVON 7102	0.97
1-CT mounting rail		ACCE 7679		
2-CT mounting rail		ACCE 7680		
3-CT mounting rail		ACCE 7681		

METERS AND
POWER MONITORS

NETWORK MONITORING
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TRANSDUCEURS

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SYNCHROCOUPLER

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NAVAL APPLICATIONS

SERVICES AND TRAINING

JVO 40-100 S

BI-RATING

Cable primary Ø 40 mm



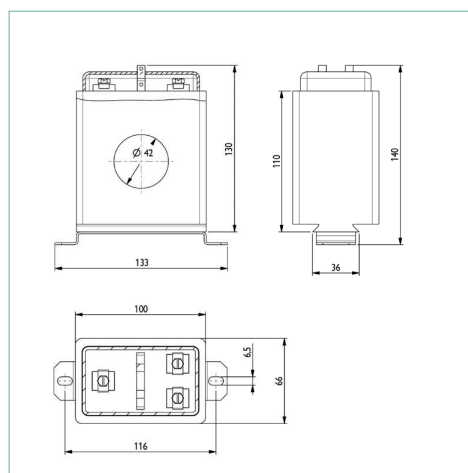
GENERAL SPECIFICATIONS

Cable primary: JVO 40-100 S bi Rating : Ø 40 mm
Transformation ratio: JVO 40-100 S bi Rating : 200-500/5 A
Accuracy class: JVO 40-100 S : 0.2s
Precision power: JVO 40-100 S : 7.5 VA
Highest network voltage: JVO 40-100 S : 720 Vac
Rated frequency: JVO 40-100 S : 50/60 Hz
Rated short-circuit thermal current (Ith):
 20 kA for 1 s
Rated dynamic current (Idyn): 2.5 Ith
Safety factor: SF = 3 (200/5 A); SF = 6 (500/5 A)
Rated thermal current: 1.2 Ipn
Operating temperature: -25°C to +40°C
Type of casing: Self-extinguishing thermoplastic (UL94V0)
Protection: IP30
Mechanical shock resistance: IK7
Rated withstand voltage: 3 kV (RMS value) at 50 Hz for 1 minute
Rated lightning impulse withstand voltage:
 8 kV (peak value) – Wave 1.2/50 µs
Insulation class: E (heating limit: 75 K)
Weight: 1.1 kg



- Class 0.2s according to IEC 60044-1
- Particularly suitable for ENEDIS-qualified bi-rating electronic meters

DIMENSIONS



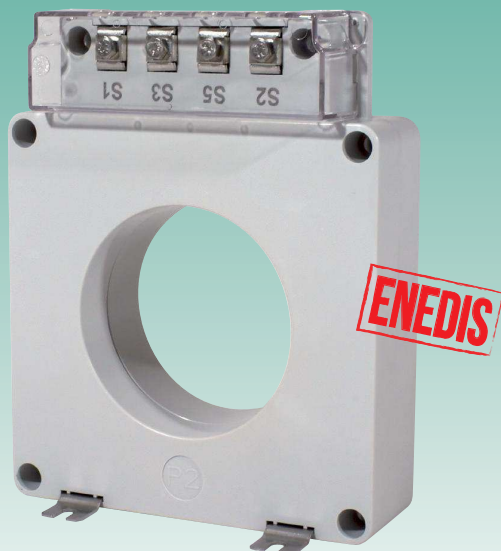
TO ORDER

Model	Reference
JVO 40-100 S bi-rating	P01379512

JVO 90-160 S

TRI-RATING

Cable primary Ø 90 mm



GENERAL SPECIFICATIONS

Cable primary: Ø 90 mm

Transformation ratio: J500 - 1.000 - 2.000 / 5 A

Accuracy class: 0.2s

Precision power: 7.5 VA

Highest network voltage: 720 Vac

Rated frequency: 50/60 Hz

Rated short-circuit thermal current (I_{th}): 30 kA for 1 s

Rated dynamic current (I_{dyn}): 2.5 I_{th}

Safety factor: SF = 4 (500/5 A);
SF = 6 (1 000/5 A);
SF = 9 (2 000/5 A)

Rated thermal current: 1.2 I_{pn}

Operating temperature: -25°C to +40°C

Type of casing: Self-extinguishing thermoplastic (UL94V0)

Protection: IP30

Mechanical shock resistance: IK7

Rated withstand voltage: 3 kV (RMS value) at 50 Hz for 1 minute

Rated lightning impulse withstand voltage:

8 kV (peak value) – Wave 1.2/50 µs

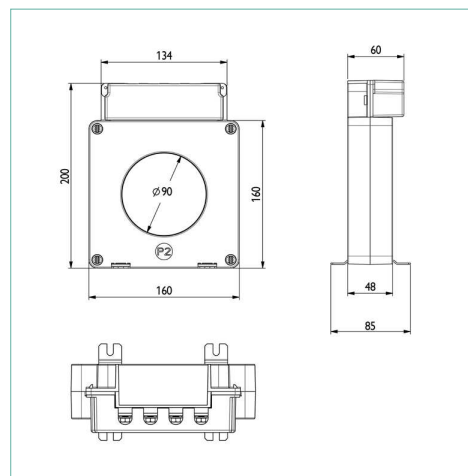
Insulation class: E (heating limit: 75 K)

Weight: 1.9 kg



- Class 0.2s according to IEC 60044-1
- Particularly suitable for ENEDIS-qualified tri-rating electronic meters

DIMENSIONS



TO ORDER

Model	Reference
JVO 90-160 S tri-rating	P01379513

METERS AND
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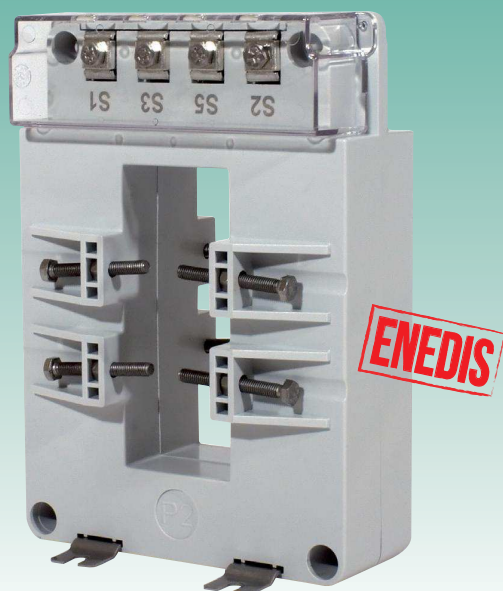
CIVILIAN AND MILITARY
NAVAL APPLICATIONS

SERVICES AND TRAINING

JVP 1145 S

TRI-RATING

Cable/busbar primary



GENERAL SPECIFICATIONS

Cable primary: Busbar: 63 x 12 mm or 100 x 12 mm

Cable: Ø 40 mm

Transformation ratio: 500 – 1.000 – 2.000 / 5 A

Accuracy class: 0.2s

Precision power: 7.5 VA

Highest network voltage: 720 Vac

Rated frequency: 50/60 Hz

Rated short-circuit thermal current (I_{th}): 30 kA for 1 s

Rated dynamic current (I_{dyn}): 2.5 I_{th}

Safety factor: SF = 3 (500/5 A);
SF = 4 (1000/5 A);
SF = 6 (2000/5 A)

Rated thermal current: 1.2 I_{pn}

Operating temperature: -25°C to +40°C

Type of casing: Self-extinguishing thermoplastic (UL94V0)

Protection: IP30

Mechanical shock resistance: IK7

Rated withstand voltage: 3 kV (RMS value) at 50 Hz
for 1 minute

Rated lightning impulse withstand voltage:

8 kV (peak value) – Wave 1.2/50 µs

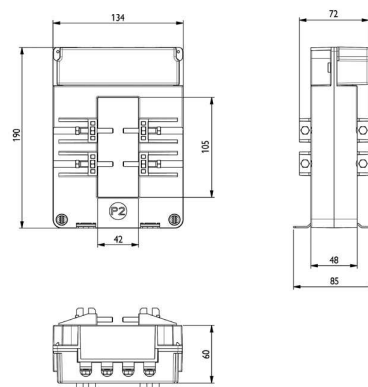
Insulation class: E (heating limit: 75 K)

Weight: 1.7 kg



- Class 0.2s according to IEC 60044-1
- Particularly suitable for ENEDIS-qualified tri-rating electronic meters

DIMENSIONS

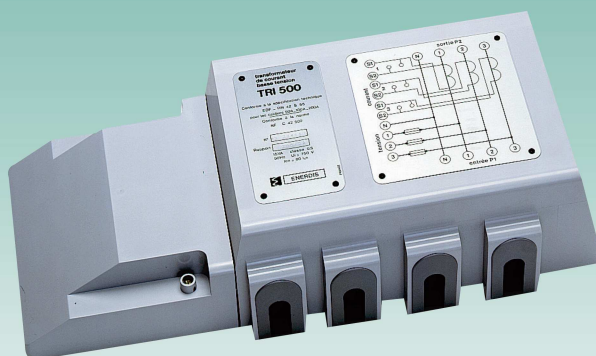


TO ORDER

Model	Reference
JVP 1145 S tri Rating	P01379510

THREE-PHASE PLATE-MOUNTED CT RANGE

TRI 500



GENERAL SPECIFICATIONS

Maximum network voltage: 500 Vac

Dielectric test voltage: 2 kV - 50 Hz - 1 min

Rated withstand voltage: 8 kV

Frequency response: 50 Hz

Primary via cable clamp: conductors from 50 to 240 mm²

Power (VA)		Weight (kg)
Primary	Class 0.5	
50 A	15	7.50
100 A	15	7.50
150 A	15	7.50
200 A	15	7.50
300 A	15	7.50
500 A	15	7.50

USER SECTORS



Industry

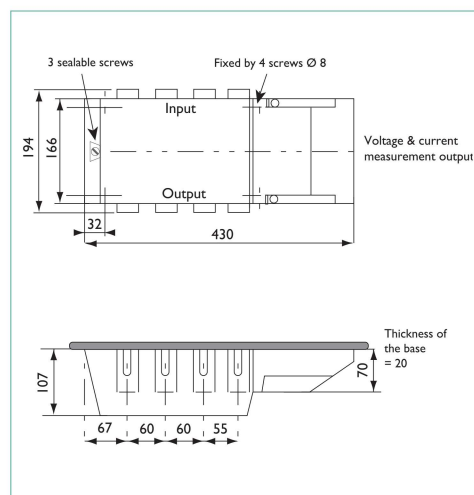


Energy
transmission
& distribution



- Compliant with NF-C-42-502 standard
- Designed for three-phase LV metering

DIMENSIONS



TO ORDER

Model	Reference
50 A	TRI5 7823
100 A	TRI5 7825
150 A	TRI5 7826
200 A	TRI5 7827
300 A	TRI5 7828
500 A	TRI5 7831

75/5, 250/5, 400/5 and 600/5 also available. Please contact us.

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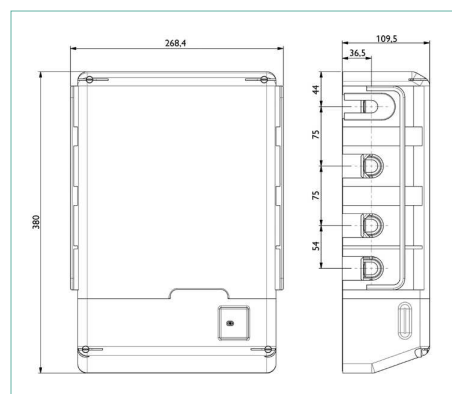
TRI 700

Transformers for tariff metering
ERDF application



- Class 0.2s according to IEC 60044-1
- Choice of primary conductor type: copper or aluminium
- Built-in short-circuiting switch

ENCOMBREMENT



TO ORDER

Model	Reference
TRI 700 tri-rating	P01379514
TRI 700 S bi-rating 50 - 100 / 5 A	P01379515
TRI 700 S bi-rating 100 - 200 / 5 A	P01379516
TRI 700 S bi-rating 200 - 500 / 5 A	P01379517

GENERAL SPECIFICATIONS

Primary via cable clamp: Conductor cross-section from 50 mm² to 240 mm²

Transformation ratio:

TRI700S bi-rating model 50 A - 100 A / 5 A
 TRI700S bi-rating model 100 A - 200 A / 5 A
 TRI700S bi-rating model 200 A - 500 A / 5 A
 TRI700 tri-rating model 100 A - 200 A - 500 A / 5 A

Accuracy class: Bi-rating model 0.2s; tri-rating model: 0.5

Precision power: Bi-rating model: 7.5 VA; tri-rating model: 3.75 VA

Maximum network voltage: Bi-rating / tri-rating model: 720 Vac

Rated frequency: Bi-rating / tri-rating model: 50/60 Hz

Rated thermal short-circuit current (I_{th}): Bi-rating / tri-rating model: 80 I_{pn} with a maximum of 20 kA for 1 s

Rated dynamic current (I_{dyn}): Bi-rating / tri-rating model: 2.5 I_{th}

Safety factor:

TRI700S 50 - 100 / 5 A: SF = 2.3 (50 A); SF = 4.2 (100 A)
 TRI700S 100-200/5 A: SF = 2.3 (100 A); SF = 4.2 (200 A)

TRI700S 200 - 500 / 5 A: SF = 2.3 (200 A); SF = 5 (500 A)

TRI700 100 - 200 - 500 / 5 A: SF = 4 (100 A);
 SF = 7 (200 A); SF = 10 (500 A)

Rated thermal current: Bi-rating / tri-rating model: 1.2 I_{pn}

Operating temperature:

Bi-rating / tri-rating model: -25°C to +40°C

Type of casing: Bi-rating / tri-rating model:

Self-extinguishing thermoplastic (UL94V0)

Protection rating: With additional cover: IP40

Mechanical shock resistance: Bi-rating / tri-rating model: (IK7)

Rated withstand voltage: Bi-rating / tri-rating model: 3 kV (RMS value) at 50 Hz for 1 minute

Lightning impulse withstand voltage: Bi-rating / tri-rating model: (8 kV) (peak value) – Wave 1.2/50 µs

Insulation class: Bi-rating / tri-rating model: E (heating limit: 75 K)

Weight: Bi-rating / tri-rating model: 9 kg