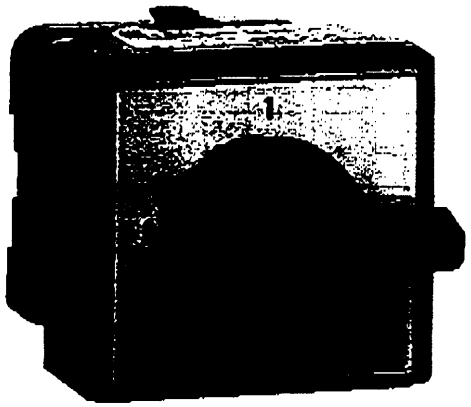
Entrelec

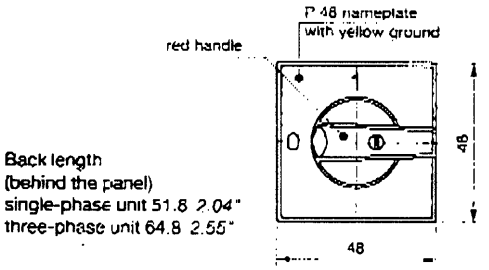
178 734 & 178 735.

VY safety switches

CE

standard switch





Back length
(behind the panel)
single-phase unit 51.8 *2.04"*
three-phase unit 64.8 *2.55"*

for ordering :

single-phase unit

	Description	P/N
110 V	VY 20/D/012/RAMT-110/ST	0511 499.15
230 V	VY 20/D/012/RAMT-230/ST	0504 492.10

three-phase unit

	Description	P/N
110 V	VY 20/D/014/RAMT-110/ST	0511 500.22
230 V	VY 20/D/014/RAMT-230/ST	0504 493.11
400 V	VY 20/D/014/RAMT-400/ST	0504 494.12

UTILIZATION

safety switch
Protects the industrial machine operator against unexpected re-starting consecutive to a network voltage break.

OPERATION

interruptor
with 2 contacts (single-phase)
or with 4 contacts (three-phase).
This switch automatically returns to the position "O".
It is not possible to maintain the handle in position "1" (on) as long as the voltage is not present.

FEATURES

- **mechanical :**
Life 10^6 operations.
IP 65 front face protection.
- **6** protection against dust penetration
- **5** protection against water jets.
NEMA 4

- **electrical :**
This unit is based on a cam switch-rating 20 A (VY 20).
IEC 408 standard :

AC 21 - 16 A - 380 V		
AC 3	single-phase	3 kW - 220 V
		4 kW - 380 V
	three-phase	4 kW - 220 V
		7.5 kW - 380 V

UL 508 standard :

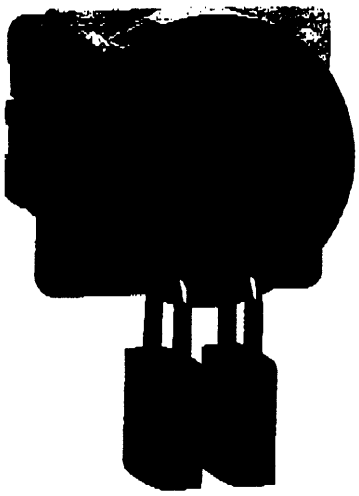
	single-phase	1 HP - 120 V
		2 HP 240 V
	three-phase	5 HP - 240 V
		10 HP 480 V

Supply voltage of the reset coil : 110 V, 230 V or 400 V - 50/60 Hz other voltages on request.
Voltage to be specified when ordering.
Insulation voltages :
VDE group C 750 V~ AC - 900 V= DC
UTE category C 500 V~ AC and – DC
CSA 600 V
UL 600 V

- **connection :**
by M 3.5 screw with self-lifting shakeproof clamp.
1 conductor of 0.75 mm² min. or n°18 AWG min.
2 conductors of 4 mm² max. or n°12 AWG max.
In order to use the switch correctly, the reset coil (terminals A1, A2) must be connected between 2 phases or between phase and neutral or to any other signal permitting to detect a supply voltage failure.

main switch with round padlocking

watertight IP 44



use 1 to 3 padlocks
with stirrup DIA. 8 *.32"* max.

for ordering :

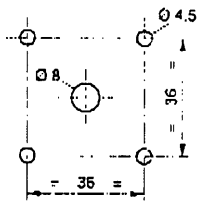
single-phase unit
VY 20 / D / 012 RAMT / SA 39 R / SV 45

three-phase unit
VY 20 / D / 014 RAMT / SA 39 R / SV 45

***Note** : specify the voltage of the coil (110 V, 230 V or 400 V).*

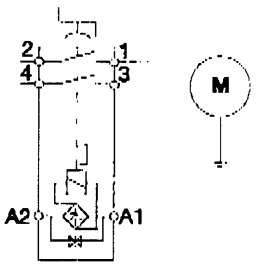
Note : this unit is delivered with a cover protecting the incoming terminals.

Drilling



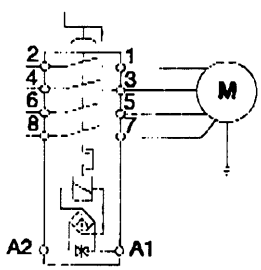
Diagrams

single-phase diagrams
VY 20 / D / 012 RAMT /

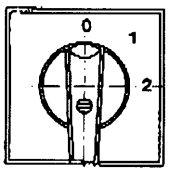


Bridge rectifier protected by "Tranzil" against overvoltage of 970 V (peak value)

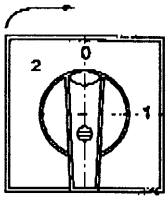
three-phase diagrams 400 V and 230 V
VY 20 / D 014 RAMT /



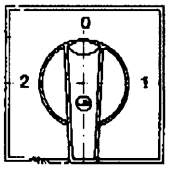
other possible switching arrangements



Unit with 3 positions.
Positions 1 and 2 are reset at 0 on voltage failure.



Unit with 3 positions.
Position 1 reset at 0 on voltage failure, position 2 push-turn implusion.



Unit with 3 positions
Position 1 reset at 0 on voltage failure, position 2 push-turn fixed.

single-phase unit

	Description	P/N
110 V	VY 20/D/012/RAMT-110/ST	0511 499.15
230 V	VY 20/D/012/RAMT-230/ST	0504 492.10

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- connection :
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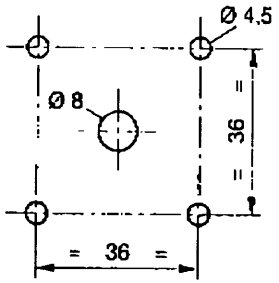
VY 20 / D / 012 RAMT / SA 39 R / SV 45

three-phase unit
VY 20 / D / 014 RAMT / SA 39 R / SV 45

***Note** : specify the voltage of the coil (110 V, 230 V or 400 V).*

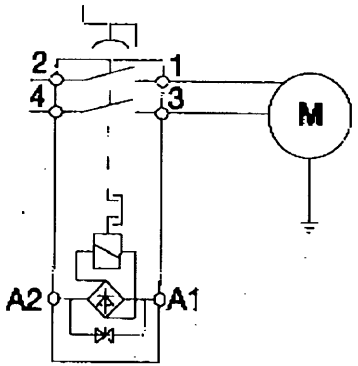
Note : this unit is delivered with a cover protecting th incoming terminals.

Drilling



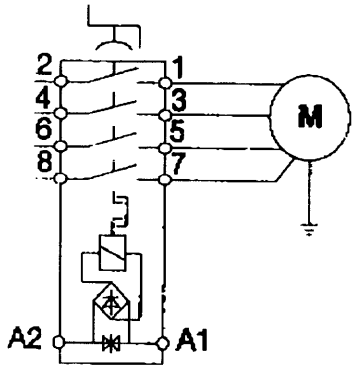
Diagrams

single-phase diagrams
VY 20 / D / 012 RAMT /

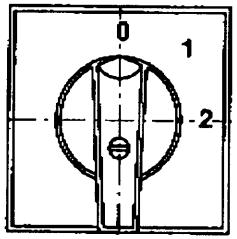


Bridge rectifier protected by "Tranzil" against overvoltage of 970 V (peak value)

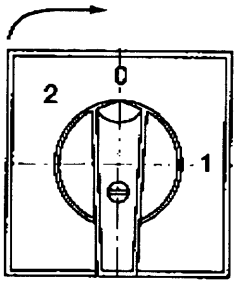
three-phase diagrams 400 V and 230 V
VY 20 / D 014 RAMT /



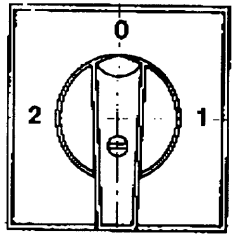
other possible switching arrangements



Unit with 3 positions. Positions 1 and 2 are reset at 0 on voltage failure.



Unit with 3 positions. Position 1 reset at 0 on voltage failure, position 2 push-turn implusion.



Unit with 3 position Position 1 reset at (on voltage failure, position 2 push-tur fixed.