3.02

50IP20-I DIN
48BIP20-I DIN
78BIP20-I DIN
96IP20-I DIN
156IP20-I DIN

Connection: **FRONT**
Terminal type: **SCREW**
Mounting: **PANEL** / **DIN RAIL**

Also suitable for Rolling stock

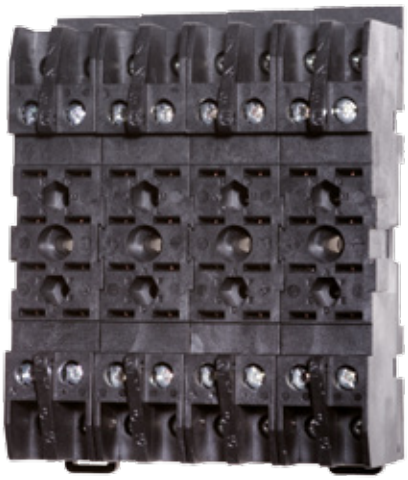
OVERVIEW

- Cable secured with screws
- Mounting to panel and 35mm DIN rail
- Sturdy construction
- Excellent contact pressure on relay terminals
- No internal soldering
- Inputs for maximum section 2.5 mm^2
- Provision for fitment of keying pins
- Provision for fitment of retaining clip
- Protection IP20

50IP20-I DIN

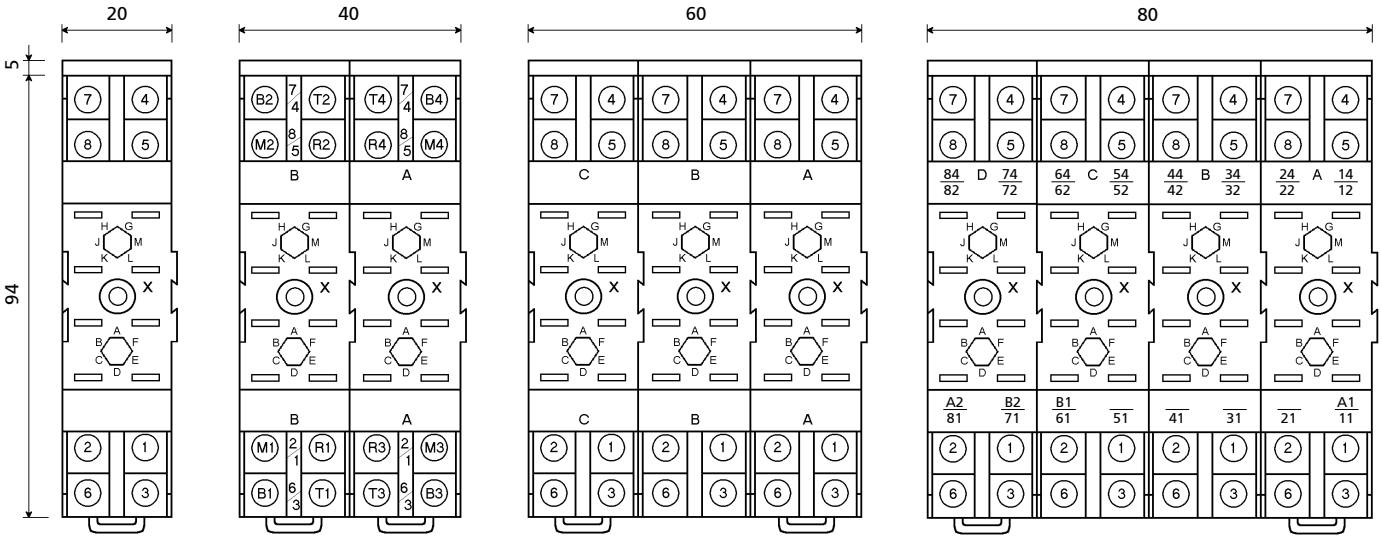
48BIP20-I DIN

78BIP20-I DIN

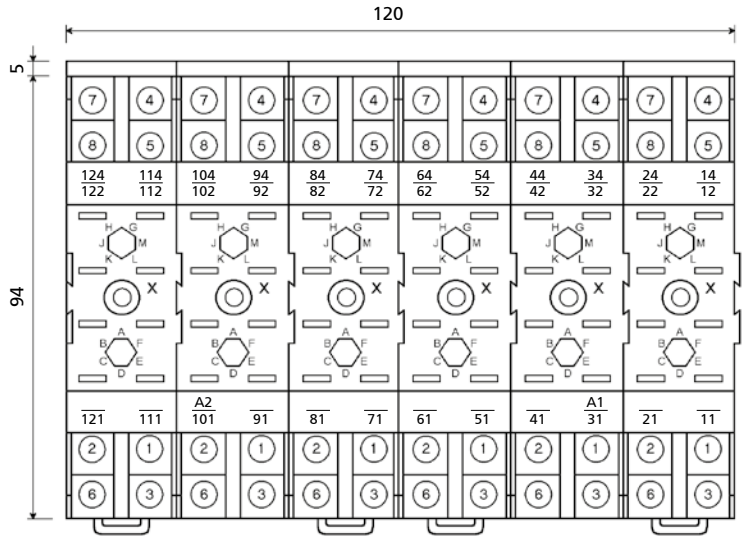


96IP20-I DIN

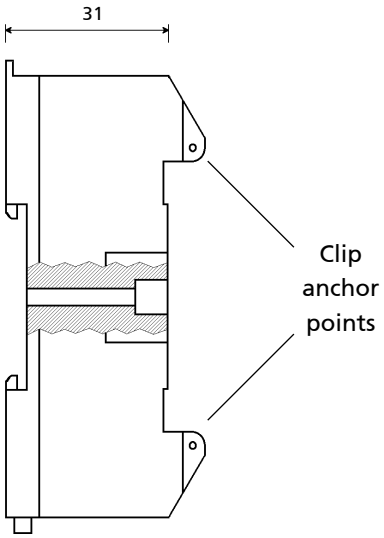
156IP20-I DIN



50IP20-I DIN | 48BIP20-I DIN | 78BIP20-I DIN | 96IP20-I DIN



156IP20-I DIN



Side view

X = Fixing holes

Specifications

Weight: 70 / 140 / 210 / 280 / 415 g
Operating temperature: -50°C…+70°C
Storage temperature: -50°C…+85°C
Panel mounting:
- ø holes: 4.2mm
- centre distance between adjacent holes: 20mm

Degree of protection: IP20
Dielectric strength: 2.5kV 50Hz 1min.
Mounting to Omega support: H35 to DIN 46277/3 - EN 60715 standards
Type and size of screw: M3 thread, cross head
Tightening torque: 0.5...0.6 Nm
Width of slot: 6.9mm
Maximum section of cable: 2 x 2.5 mm^2
Fire resistance: EN60695-2-1, UL94 - V0, EN45545-2, NFPA130
Standards: EN60255, EN60947, EN 61810, EN61373

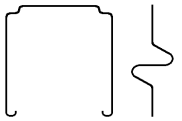
AMRA line - Retaining clips

The designation of retaining clips is made up of two parts:

	1st part: 2 or 3 letters	2nd part: 2 numbers
	Identifies the type of relay	Identifies the model of socket
Example	**RPB**	**48**

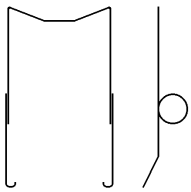
1st part:	Type of relay
RPB	Relays with cover, height 50mm (POKs, UTM series)
RQ	Relays with cover, height 61mm (QPOK)
RG	Relays with cover, height 86mm (RGG series)
RC	Relays with cover, height 97mm (OK series)
RL	Relays with cover, height 109mm (OK series)
RT	Timer relays with cover, height 97mm
RM	Relays with cover, height 118mm (MOK series)

2nd part:	Socket model
43	53IL, 43IL, 73IL, 65
48	PAIR, 50IP20-I DIN, 48BIP20-I DIN, 78BIP20-I DIN, 96IP20-I DIN, 156IP20-I DIN, 50L, 48BL, 78BL, 96L ADF1, ADF2, ADF3, ADF4, ADF6 series

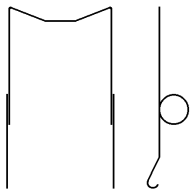


Mod.
RPB43 – RQ43

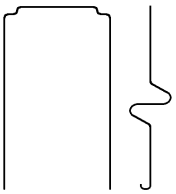
Mod.
RPB48 – RQ48



Mod.
RL43 - RC43



Mod.
RL48 - RC48



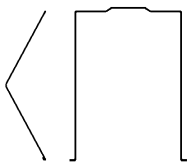
Mod.
RT48 - RG48

MTI line - Retaining clips

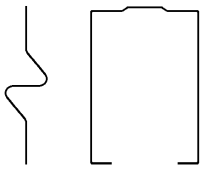
The designation of retaining clips is made up of two parts:

	1st part: 4 characters	2nd part: 2 numbers
	Identifies the line	Identifies the relay size
Example	**VM12**	**21**

1st part:	Relay line	2nd part :	Relay size
VM12	Relays of G line → all RGxx models	21	Relays of 82mm height
		22	Relays of 112mm height
VM18	Relays of C and D line → all RCxx and RDxx models	21	Relays of 50mm height
		22	Relays of 75mm height
		23	Relays of 82mm height



Mod. VM12xx



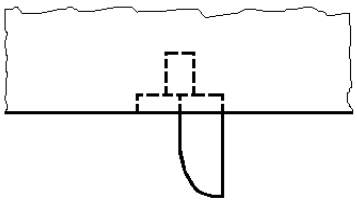
Mod. VM18xx

N.B. Dimensions not to scale. The height of the clip varies according to the height of the relay.
Pack containing 10 pieces.

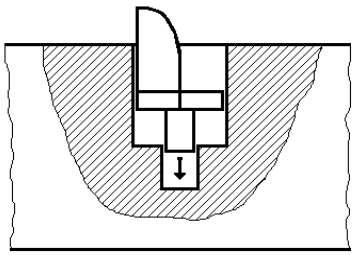
Positive mechanical keying (polarizing pins)

Relay line	Ordering code	Notes	
AMRA	59	These are supplied in pairs. 1 piece ordered = 2 single pins (Pack containing 25 pairs)	
MTI	VC1705	These are supplied singly. 1 piece ordered = 1 single pin (Pack containing 100 pcs)	

Keying pins are mechanical components of semi-hexagonal shape, designed to prevent a given relay from being plugged into a socket intended for a different component. The keying configuration is determined by fitting the pins both to the relay and to the socket, in positions identified by a dedicated code.
The hexagonal geometry of the receptacle allows the polarizing pins to be inserted in 6 different positions.



Polarizing pin on relay



Polarizing pin on socket,
to be fitted by the customer

Whilst the use of this component is optional, it is nonetheless strongly recommended where there are multiple relays installed on an electrical panel, for example:

- two or more relays of the same model but with different input voltages
- two or more timer relays with different response and/or logic operating times (e.g. timed to operate on pick-up and timed to operate on drop-out)
- two or more instantaneous relays of different type (e.g. monostable and bistable)

In these cases, the adoption of keying position accessories will prevent any accidental inversion of the relays by the operator, which would risk damage to the system and to the components themselves, as well as jeopardizing safety.

Fitment and position

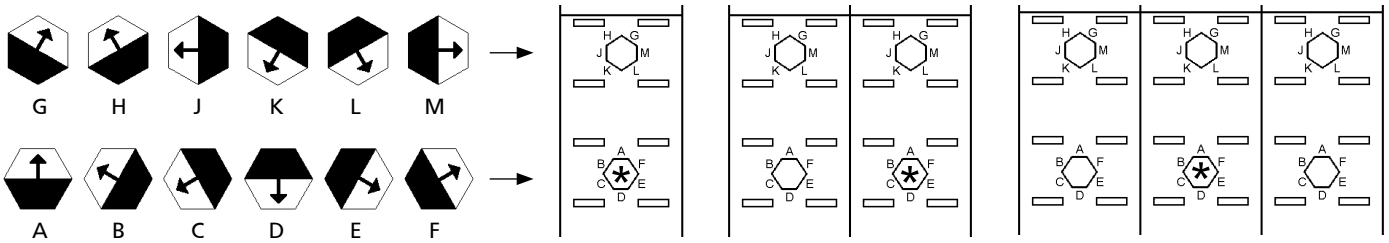
Relays of standard design are not equipped with these accessories.
The mounting position of polarizing pins, if requested, is determined by the manufacturer.
Keying pins for sockets are fitted normally by the customer.
In this case, keying accessories for application to the socket are ordered separately.

The following relays are supplied with pins fitted in positions determined by the manufacturer:

- STATIONS series, approved by ENEL / TERNA Italia to LV15/LV16/20 specifications
- RAILWAYS - FIXED EQUIPMENT series, approved by RFI (FS Italia Group) to RFI DPRIM STF IFS TE 143 A specification
- RAILWAYS - ROLLING STOCK series

AMRA line

Positions obtainable in hexagonal receptacles



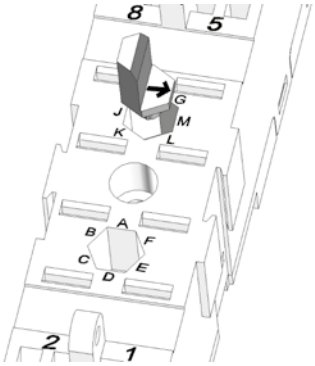
Detail of socket with 8 slots

Detail of socket with 16 slots

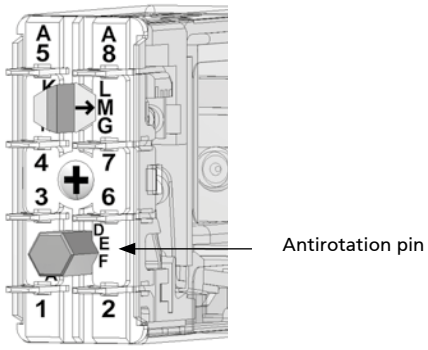
Detail of socket with 24 slots

*: receptacle to be left free in the event that the relay is fitted with an antirotation pin.

In the case of polarized input (e.g. with flyback diode), the relay is fitted with an antirotation pin (detail 60). The antirotation pin is always fitted to the following relays:
POK, BIPOK, TRIPOK, QUADRIPOK, ESAPOK, BAS8NB, TM, OKTx, OKRx, OKRe-L, CLE, OKRe-Fp.



Example of selection, pos. M on socket with 8 slots

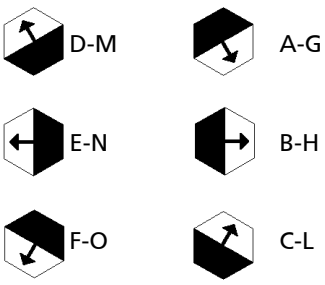


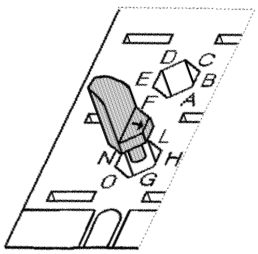
Example of selection, pos. M on POK relay

MTI line

Positions obtainable in hexagonal receptacles

C line

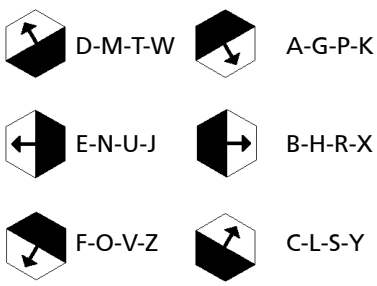


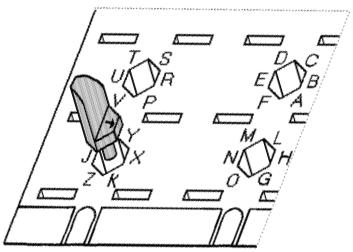


Example of selection, pos. **H**

2 hexagonal receptacles available on relay and on socket.

D line





Example of selection, pos. **X**

4 hexagonal receptacles available on relay and on socket.

Note: all relays are fitted with an antirotation guide pin.