

#### **FEATURES**

#### ■Highly reliable contact (contactor)

The fork-shaped contact has a cleaning groove in the contacting part, which wipe off dust and other foreign material attached to the contacting part so that good contact is always maintained. The contacting part is fork-shaped having 2 contacting points per prong. Thus, 1 contact provides 6 contacting points and this structure assures high reliability.

#### **■**Safety structure

All the live parts are accommodated in the housing made of rigid engineering plastic.

A beautiful cover that also serves as a grip is provided to shield the terminal side.

#### ■Prevention of wrong insertion

The housing is designed to be inserted in a given direction. Since the contacts are completely protected by the housing, an inserting attempt in wrong direction does not create a contact between different circuits.

#### Large current capacity

The current-carrying capacity is 20 A when all the circuits are always ON or 25 A when a half of the circuits are used.

#### Quick locking mechanism

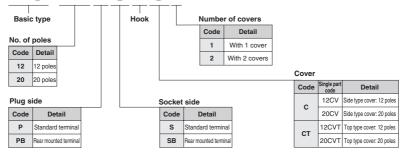
The guick locking mechanism (with the KC hook) of the housing is easy to use.

#### **SPECIFICATIONS (RATINGS, PERFORMANCE)**

Type Specification Type	KC-12	KC-20	
Rated insulation voltage (Ui)	600V		
Rated current-carrying capacity (Ith)	20A (25 A when 1/2 circuit is closed)		
Applicable wire size	2mm² to 5.5mm²	2mm² to 5.5mm² *Up to 18 wires in case of 5.5mm²	
Power-Frequency withstand voltage	(Live part to assembly mounting panel) 2,500V AC / 1 min. / (Between live parts) 2,500V AC / 1 min.		
Rated impulse withstand voltage	(Between live parts and mounting panel) $\pm 7kV$ / 3 times for each pole (1.2 / 50µs) (Between live parts) $\pm 4,.5kV$ / 3 times for each pole (1.2 / 50µs)		
Short-time current	200A 2 sec.		
Contact resistance	Between poles 10m Ω max. (initial value)		
Shock resistance	30 G or more / each axial direction		
Ambient operating temperature	−20 to 50°C		
Storing temperature	−40 to 85°C		
Relative humidity	85% or less		
Altitude	2,000 m or less		

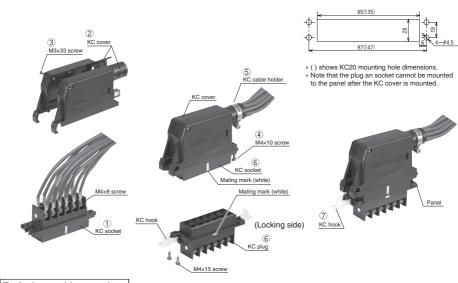
# **HOW TO ORDER**





#### **INSTALLATION**

#### ■Mounting hole (common to plug and socket sides)



### Typical assembly procedure

- ①Wire to the KC socket terminal.
- ②Fit the KC cover to the KC socket.
- ③Tighten the KC cover with an M3×33 screw.
- 4) Fix the KC cover with an M4x10 screw.
- ⑤Tighten the KC cover cable outlet with the KC cable holder.
- ⑥After mounting the KC plug to the panel, assemble it to the KC socket (matching the mating marks with each other).
- ⑦Lock with the KC hook on both sides.

# **STANDARD PRODUCTS**

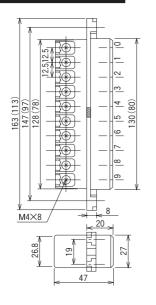
	Plug	Socket	Set of plug and socket
12 poles	KC-12P	KC-12S	KC-12PS
	MARIAN	KC-12SB (Rear mounted terminal block)	KC-12PBSB (Rear mounted terminal block)
20 poles	KC-20P	KC-20S	KC-20PS
	KC-20PB (Rear mounted terminal block)	KC-20SB (Rear mounted terminal block)	KC-20PBSB (Rear mounted terminal block)

Set of plug and socket	Combinations of side type cover	Combinations of top type cover
KC-12PBS (Rear mounted terminal block on plug side)	KC-12PSFC1	KC-12PSFCT1
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KC-12PSB (Rear mounted terminal block on socket side)	KC-12PSFC2	KC-12PSFCT2
KC-20PBS (Rear mounted terminal block on plug side)	KC-20PSFC1	KC-20PSFCT1
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KC-20PSB (Rear mounted terminal block on socket side)	KC-20PSFC2	KC-20PSFCT2

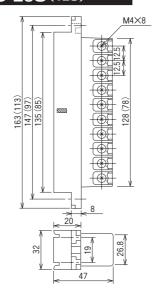


# **DRAWING** ( ) shows KC-12 dimensions.

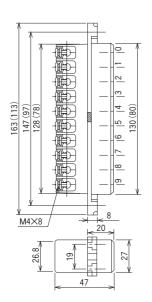
### KC-20P (12P)



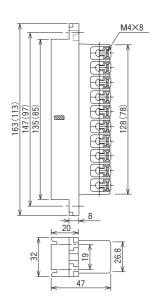
### KC-20S (12S)



# KC-20PB (12PB)

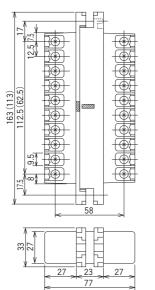


# KC-20SB (12SB)



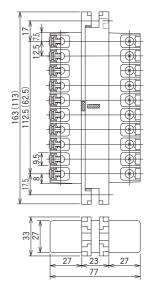
# DRAWING OF PLUG AND SOCKET SET () shows KC-12 dimensions.





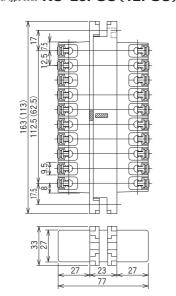
### KC-20PBS (12PBS)

Former type code KC-20PSB(12PSB)



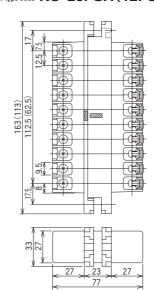
#### KC-20PBSB(12PBSB)

Former type code KC-20PSC (12PSC)



# KC-20PSB(12PSB)

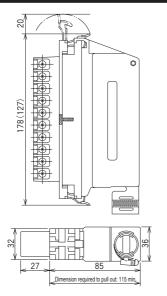
Former type code KC-20PSA(12PSA)



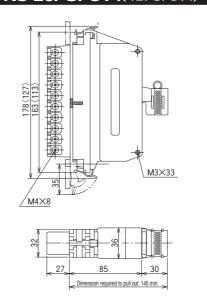


### DRAWING OF PLUG AND SOCKET SET () shows KC-12 dimensions.

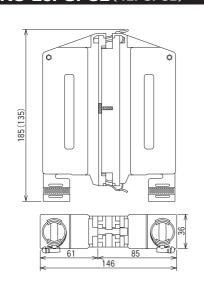
# KC-20PSFC1(12SFC1)



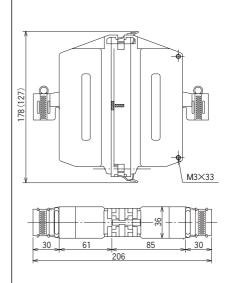
### KC-20PSFCT1(12PSFCT1)



### KC-20PSFC2 (12PSFC2)



### KC-20PSFCT2 (12PSFCT2)



# **ACCESSORIES**

# Hook



KC hook

### Side type cover





### Cover opening tie



For 12 poles NM-10 For 20 poles NM-12

### Top type cover





### **TERMINAL NUMBERS**

The terminal numbers of the KC type connector are assigned as follows:



