

Fixed Position

Output Type

Input
Singal/Voltage/CurrentI/O Form/Component
Type/Signal Type

Output Voltage

Output Current

Shape Code

Others

Solid State Relay

DC / AC SOLID STATE RELAY

DC SOLID STATE RELAY

MGR-1DD220D □

MGR-
(Series)1
(One Channel)Control Voltage
D (3~32VDC)I/O Form
D (DC Input-DC Output)Load Voltage
220 (5~220VDC)Load Current
10A,20A,25A,30A,40A,50A,60A,75A,
80A,90A,100A

MGR-1DD60D □

MGR-
(Series)1
(One Channel)Control Voltage
D (3~32VDC)I/O Form
D (DC Input-DC Output)Load Voltage
60 (5~60VDC)Load Current
200A,300A,400A,600A

DC-AC SOLID STATE RELAY

MGR-1D48 □

MGR-
(Series)1
(Single Phase)Control Voltage
D (3~32VDC)Load Voltage
48 (24~480VAC)Load Current
10A,20A,25A,30A,40A,50A,60A,75A,
80A,90A,100A,120A,150A

RANDOM CONDUCTION SOLID STATE RELAY

MGR-1D48 □ P

MGR-
(Series)1
(Single Phase)Control Voltage
D (4~8VDC)Load Voltage
48 (24~480VAC)Load Current
10A,20A,25A,30A,40A,50A,60A,75A,
80A,90A,100A,120A,150AOther Feature
P (Random Conduction Type)

AC SOLID STATE RELAY

MGR-1A48 □

MGR-
(Series)1
(Single Phase)Control Voltage
A (85~265VAC)Load Voltage
48 (24~480VAC)Load Current
10A,20A,25A,30A,40A,50A,60A,75A,
80A,90A,100A,120A,150A

THREE PHASE AC SOLID STATE RELAY

MGR-3 032 38 □ Z

MGR-
(Series)3
(Three Phase)Control Voltage
032 (3~32VDC)Load Voltage
38 (24~480VAC)Load Current
10A,15A,20A,25A,30A,40A,50A,60A,
75A,80A,100A,120A,150A,200AOther Feature
Z (Zero~Crossing Type)

MGR-3 A38 □ Z

MGR-
(Series)3
(Three Phase)Control Voltage
A (85~265VAC)Load Voltage
38 (24~480VAC)Load Current
10A,15A,20A,25A,30A,40A,50A,60A,
75A,80A,100A,120A,150A,200AOther Feature
Z (Zero~Crossing Type)

INDUSTRIAL SOLID STATE RELAY

MGR-H3100Z

MGR-
(Series)H
(Long Strip)Load Voltage
3 (30~480VAC)Load Current
40A,60A,80A,100A,120A,125AOther Feature
Z (Zero~Crossing Type)

MGR-H3200Z

MGR- (Series)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 150A,200A,250A,300A,350A,400A	Other Feature Z (Zero~Crossing Type)
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MGR-H3400Z

MGR- (Series)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 400A,500A	Other Feature Z (Zero~Crossing Type)
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MGR-H3100P

MGR- (Series)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 40A,60A,80A,100A,120A,125A	Other Feature P (Random Conduction Type)
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MGR-H3200P

MGR- (Series)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 150A,200A,300A,400A	Other Feature P (Random Conduction Type)
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MGR-AH3100Z

MGR- (Series)	Control Voltage A (85~265VAC)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 40A,60A,80A,100A,120A,125A	Other Feature Z (Zero~Crossing Type)
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MGR-AH3200Z

MGR- (Series)	Control Voltage A (85~265VAC)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 150A,200A,250A,300A,400A	Other Feature Z (Zero~Crossing Type)
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MGR-AH3400Z

MGR- (Series)	Control Voltage A (85~265VAC)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 400A,500A	Other Feature Z (Zero~Crossing Type)
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INDUSTRIAL THREE PHASE AC COMBINED SOLID STATE RELAY

MGR-H3100Z-3

MGR- (Series)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 40A,60A,80A,100A,120A,125A	Other Feature Z (Zero-Crossing Type)	-3 (Combined by three single-phase solid state relays)
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MGR-H3200Z-3

MGR- (Series)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 150A,200A,300A,400A	Other Feature Z (Zero-Crossing Type)	-3 (Combined by three single-phase solid state relays)
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MGR-AH3100Z-3

MGR- (Series)	Control Voltage A (85~265VAC)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 40A,60A,80A,100A,120A,125A	Other Feature Z (Zero~Crossing Type)	-3 (Combined by three single-phase solid state relays)
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MGR-AH3200Z-3

MGR- (Series)	Control Voltage A (85~265VAC)	H (Long Strip)	Load Voltage 3 (30~480VAC)	Load Current 150A,200A,300A,400A	Other Feature Z (Zero~Crossing Type)	-3 (Combined by three single-phase solid state relays)
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SPDT SOLID STATE RELAY

MGR-1 KB48 □

MGR- (Series)	1 (Single Phase)	KB (Single Pole,Double Throw--	Load Voltage 48 (480VAC)	Load Current 10A,15A,20A,25A,30A,40A
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SEPCIAL SOLID STATE REL

MGR-1 AKB48 □

MGR-
(Series)

1

(Single Phase)

Control Voltage

A (85~265VAC)

KB

(Single Pole,Double Throw--
1NO,1NC)

Load Voltage

48 (480VAC)

Load Current

10A,15A,20A,25A,30A,40A

1NO,1NC

DUAL CHANNEL SINGLE PHASE AC SOLID STATE RELAY

MGR-1 D48 □ -2H

MGR-
(Series)

1

(Single Phase)

Control Voltage

D (3~32VDC)

Load Voltage

48 (480VAC)

Load Current

10A,15A,20A,25A,30A,40A

-2H

(Dual Channel)

MGR-1 D48 □ -2T

MGR-
(Series)

1

(Single Phase)

Control Voltage

D (3~32VDC)

Load Voltage

48 (480VAC)

Load Current

10A,15A,20A,25A,30A,40A

-2T

(Dual Channel,Terminal Type)

FIVE CHANNEL AC SOLID STATE RELAY

PN5-10DA

PN5-
(Five Channel)

Load Current

5A,10A

DA

(DC Input-AC Output)

FIVE CHANNEL DC SOLID STATE RELAY

ST5-5DD

ST5-
(Five Channel)

Load Current

5A,10A

DD

(DC Input-DC Output)

PCB MOUNTING SOLID STATE RELAY

JGX-1F

JGX-
(Series)

Load Current

1 (1A,3A,5A)

I/O Form

F (DC Input-AC Output)

JGX-1FA

JGX-
(Series)

Load Current

1 (1A,3A,5A)

I/O Form

FA (DC Input-DC Output)

JGX-5F

JGX-
(Series)

Load Current

5 (3A,5A)

I/O Form

F (DC Input-AC Output)

JGX-5FA

JGX-
(Series)

Load Current

5 (3A,5A)

I/O Form

FA (DC Input-DC Output)

GJ-5-L

GJ-
(Series)

Load Current

5 (3A,5A)

L

(Pins lined in a row)

GJ-5FA-L

GJ-
(Series)

Load Current

5 (3A,5A)

I/O Form

FA (DC Input-DC Output)

L

(Pins lined in a row)

JGX-8F-S

MOUNTING/COMPACT SOLID STATE RELAY

PCB

JGX-
(Series)

Load Current
8 (5A,8A)

I/O Form
F (DC Input-AC Output)

S
(Heat Sink)

JGX-8FA-S

JGX-
(Series)

Load Current
8 (5A,8A)

I/O Form
FA (DC Input-DC Output)

S
(Heat Sink)

MINI DC SOLID STATE RELAY

MGR-5DD

MGR-
(Series)

Load Current
5A,10A

Control Voltage
D (3~32VDC)

Load Voltage
D (5~220VDC)

MINI AC SOLID STATE RELAY

MGR-1 X 4810

MGR-
(Series)

1
(Single Phase)

X
(Compact)

Load Voltage
48 (480VAC)

Load Current
5A,10A

COMPACT THREE PHASE AC SOLID STATE RELAY

MGR-3X 48D □ Z

MGR-
(Series)

3
(Three Phase)

X
(Compact)

Load Voltage
48 (480VAC)

Control Voltage
D (3~32VDC)

Load Current
10A,15A,20A,25A,30A,40A

Other Feature
Z (Zero-Crossing Type)

MGR-3X 48A □ Z

MGR-
(Series)

3
(Three Phase)

X
(Compact)

Load Voltage
48 (480VAC)

Control Voltage
A (85~265VAC)

Load Current
10A,15A,20A,25A,30A,40A

Other Feature
Z (Zero-Crossing Type)

COMPACT SOLID STATE RELAY

SOLID STATE VOLTAGE REGULATOR

MGR-R □ A

MGR-
(Series)

R

Potentiometer
(470K) (680K)(820K)

Load Current

10A,25A,40A,60A,80A,100A,120A

A

MGR-1 VD24 □ G

MGR-
(Series)

1

(Single Phase)

VD

(Voltage Regulator)

Load Voltage

24 (0~240VAC)
38 (0~380VAC)

Load Current

10A,25A,40A,60A,80A,100A,120A

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)

MGR- □ DV

MGR-
(Series)

Load Current

10A,25A,40A,60A,80A,100A,120A

DV

(Pulse Signal)

MGR-HVR □□ A

MGR-
(Series)

H

(Long Strip)

VR

Voltage Regulator
Potentiometer
(470K) (680K)(820K)

Load Current

60A,80A,100A,120A,125A,150A,200A,300A,400A

A

DC GOVERNOR

MGR-DTS-V-60E-25

MGR-
(Series)

DTS
(Series)

V

(DC governor)

Load Current

25A,50A,100A,150A,250A

Control Signal Types

E (0~5VDC)
G (4~20mA)

Load Voltage

12 (12VDC)
24 (24VDC)
48 (48VDC)

DC GOVERNOR

RECTIFICATION
SOLID STATE RELAY

Single Phase Rectification Solid State Relay

MGR-ZK80 □

MGR- (Series)	ZK (Rectification)	Load Voltage 80 (800VAC)	Load Current 100A,200A
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Three Phase Rectification Solid State Relay

MGR-3 ZK120 □

MGR- (Series)	3 (Three Phase)	ZK (Rectification)	Load Voltage 12 (24~480VAC)	Load Current 100A,200A
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REVERSIBLE-MOTOR
SOLID STATE RELAY

SINGLE PHASE AC REVERSIBLE-MOTOR SOLID STATE RELAY

MGR-1-M48 □

MGR- (Series)	1 (Single Phase)	M (Forward/Reverse)	Load Voltage 48 (480VAC)	Load Current 10A,20A,25A,40A,60A
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THREE PHASE REVERSIBLE-MOTOR SOLID STATE RELAY

MGR-3-M48 □

MGR- (Series)	3 (Three Phase)	M (Forward/Reverse)	Load Voltage 48 (480VAC)	Load Current 10A,15A,20A,25A,30A,40A,50A,60A, 75A,80A,100A
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Module

THREE PHASE POWER REGULATOR

MGR-SCR3 □ □ **LA**

MGR- (Series)	SCR3 (Series)	Load Current 25A,40A,80A,100A,120A	LA
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MGR-SCR □ □ **LA-H**

MGR- (Series)	SCR (Series)	Load Current 40A,65A,75A,80A,90A,100A,120A,150A,200A,250A,300A,400A	LA	H
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SINGLE PHASE PHASE-SHIFT VOLTAGE-REGULATION STABILIZER MODULE

MGR-DTY-F-22- □ □ **-EG**

MGR- (Series)	DTY (SCR voltage regulator)	F (Closed-loop stabilizer)	Load Voltage 22 (220VAC) 38 (380VAC)	Load Current 15A,25A,40A,50A,70A,90A,120A,150A,200A	Control Voltage E (0~5VDC)	Control Current G (4~20mA)
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FULL ISOLATION SINGLE PHASE AC VOLTAGE REGULATOR MODULE

MGR-DT22 □ □ **EG**

MGR- (Series)	DT (Series)	Load Voltage 22 (220VAC) 38 (380VAC)	Load Current 10A,40A,80A,120A,160A,200A,250A, 300A	Control Signal Types EG (0~5VDC, 4~20mA) F (0~10VDC) H (1~5VDC)
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MGR-DT22 □ □ **XEG**

VOLTAGE REGULATOR/RECTIFIER MODULE

MGR-
(Series)

DT
(Series)

Load Voltage
22 (220VAC)
38 (380VAC)

Load Current
10A,25A,50A

X
(Half-Wave)

Control Signal Types
EG (0~5VDC, 4~20mA)
F (0~10VDC)
H (1~5VDC)

FULL ISOLATION SINGLE PHASE FULLY-CONTROLLED BRIDGE RECTIFIER MODULE

MGR-DQZ380D □□ E

MGR-
(Series)

DQZ
(Series)

Load Voltage
36 (36VAC)
110 (110VAC)
220 (220VAC)
380 (380VAC)

D
(Control Signal)

Load Current
15A,35A,75A,120A,150A,190A

Control Signal Types
E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

FULL ISOLATION THREE PHASE AC VOLTAGE REGULATOR MODULE

MGR-ST380D □□ E

MGR-
(Series)

ST
(Series)

Load Voltage
380 (380VAC)

D
(Control Signal)

Load Current
35A,75A,120A,150A

Control Signal Types
E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

EXTERNAL TRANSFORMER TYPE FULL ISOLATION SINGLE PHASE AC VOLTAGE REGULATOR

MGR-EUV □□ E

MGR-
(Series)

EUV
(Series)

Load Current
10A,25A,40A,50A,80A,120A,160A,200A,250A,300A

Control Signal Types
E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

WELDING MACHINE MODULE

MFG-70

(Series)

MFG,MFY,MDG,MDY,MTG,MTY

DC Output Current

70A,110A,160A,200A,250A,300A

BRIDGE RECTIFIER

KBPC-35-06

KBPC-

(MGR bridge rectifier)

DC Output Current

5~35A
50A

Voltage code Value

1~16

* (VRRM= Voltage code * 100 Times)

QL-35-06

QL-

(Single phase bridge rectifier)

DC Output Current

5~50A
40A,60A,100A,150A,200A,250A

Voltage code Value

1~16

* (VRRM= Voltage code * 100 Times)

SQL-35-06

SQL-

(Three phase bridge rectifier)

DC Output Current

50A
40A,60A,100A,150A,200A,250A

Voltage code Value

1~16

* (VRRM= Voltage code * 100 Times)

STANDARD THYRISTOR MODULE

MTC-25

(Series)

MTA,MTC,MTK,MTX,MT

Average On-State Current
25A,55A,70A,90A,110A,130A,160A,200A,250A,300A,400A,500A,800A,1000A

Water Cooling Module

Yes/No

MDC-25**(Series)**
MDA,MDC,MDK,MDX,MD**Average On-State Current**
25A,55A,70A,90A,110A,130A,160A,200A,250A,300A,400A,500A,800A,1000A**Water Cooling Module**
Yes/No

STANDARD THYRISTOR AND RECTIFIER HYBRID MODULE

MFC-25**(Series)**
MFA,MFC,MFK,MFX**Average On-State Current**
25A,55A,70A,90A,110A,130A,160A,200A,250A,300A,400A,500A,800A,1000A**Water Cooling Module**
Yes/No

SINGLE PHASE FULLY-CONTROLLED/HALF-CONTROLLED BRIDGE RECTIFIER MODULE

MFQ-60**(Series)**
MFQ,MHF,MTF**DC Output Current**
60A,90A,130A,150A,200A,300A,450A

THREE PHASE FULLY-CONTROLLED/HALF-CONTROLLED BRIDGE RECTIFIER MODULE

MTS-60**(Series)**
MTS,MFS**DC Output Current**
60A,90A,130A,150A,200A,300A,450A

SINGLE PHASE / THREE PHASE BRIDGE RECTIFIER MODULE

MDQ-60**(Series)**
MDQ (Single phase)
MDS (Three phase)**DC Output Current**
30A,60A,100A,150A,200A,300A,400A,500A,600A

SOLID STATE RELAY THREE PHASE PHASE-SHIFT TRIGGER MODULE

SSR-3JKEG**SSR-**
(Series)**3**
(Three Phase)**JK**
(Phase-Shift Trigger Module)**Control Signal Types**E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)**TB-3****TB-**
(Three Phase Synchronous
Transformer Module)**3**
(Three Phase)

THREE PHASE PHASE-SHIFT TRIGGER MODULE

SX-JKAFG**SX-**
(Series)**JK**
(Phase Shift Trigger Module)**Trigger Module Types**A (SCR Voltage Regulator)
T (Triac Voltage Regulator)
Z (Fully-Controlled Rectifier)
B (Half-Controlled Rectifier)**Control Signal Types**E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)**TB-3A****TB-**
(Three Phase Synchronous
Transformer Module)**3**
(Three Phase)**Series**A
Z

PHASE-SHIFT TRIGGER

RANDOM CONDUCTION SOLID STATE RELAY PHASE-SHIFT TRIGGER MODULE

SSR-JKZKE

SSR-
(Series)

JKZK
(Plug-in mounting)

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

SSR-JKWKE

SSR-
(Series)

JKWK
(Flange mounting)

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

THYRISTOR PHASE-SHIFT TRIGGER MODULE

SCR-JKKE

SCR-
(Series)

JK
(Phase Shift Trigger Module)

K
(Thyristor)

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

TRIAC-JKKE

TRIAC-
(Series)

JK
(Phase Shift Trigger Module)

K
(Thyristor)

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

SINGLE PHASE DUAL CHANNEL THYRISTOR PHASE-SHIFT TRIGGER MODULE

SCR-JKK/2E

SCR-
(Series)

JK
(Phase Shift Trigger Module)

K
(Thyristor)

/2
(Dual Channel)

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

I/O MODULE

I/O MODULE

IAC-5E

I/O Module Series

IAC (AC Input Module)
IDC (DC Input Module)
OAC (AC Output Module)
ODC (DC Output Module)

Input / Logic Voltage

5 (5VDC)
15 (15VDC)
24 (24VDC)

Control Signal Types

E (0~5VDC)
F (0~10VDC)
G (4~20mA)
H (1~5VDC)

Other Features

* Please check the catalog for more details.

DC COMMUTATOR MODULE

MGR-DHK □ A-200V

MGR-
(Series)

D
(10~32VDC)

HK
(DC Commutator)

Load Current
10A~40A

A

Load Voltage
200V (220VDC)

DC COMMUTATOR OR MODULE

HEAT SINK

HEAT SINK/RADIATOR

HEAT SINK FOR SOLID STATE RELAY

MG-I

MG-
(Series)

Shape

I
W
T
L
H
F
Y

AIR COOLED RADIATOR FOR MODULE

MG-F-300

MG-
(Series)

Shape

E
G
K
Y
Z

Length

▷ length of some types can be customized