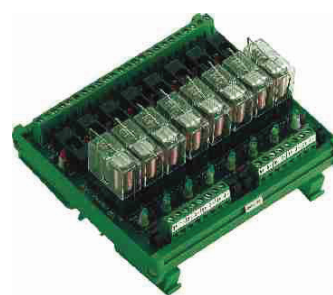


1 CO & 2 CO FUSED RELAY MODULES

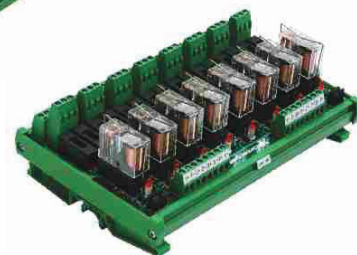
FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

FEATURES

- Replaceable fuses with simple to operate Horizontal fuse holders
- Fast Blow & Slow Blow fuses available as standard
- Fuse ratings from 0.1 A to 6.3 A available.
- Variety of Operating Voltages.
- Switching Current upto 10 A at 230 VAC (or 30 VDC)
- Low Coil Drive Current (4.7 mA to 100 mA)
- Easy to replace pluggable relays.
- Possibility of Bussing (Jumpering) relays in common negative or common positive configurations.
- Relay Coil Protection by means of a Freewheeling Diode.
- Green LED Indication to denote relay actuation.
- Red LED Indication to denote fuse fail indication.
- Mounting Options available:
DIN Rail mounting & Panel mounting.



MODULE WITH FUSE FAIL INDICATION



MODULE WITH FUSE AT OUTPUT



TECHNICAL INFORMATION

GENERAL DATA

Number of Channels	1	2	4	8	16
Width (mm)	120	120	120	120	120
Height (mm)	74	74	74	74	74
Length L(mm)					
1 C/O Fuse at Output	23	39	69	130	219
2 C/O Fuse at Output	26	52	102	190	312
1 C/O Fuse at Input	23	39	69	130	219
2 C/O Fuse at Input	23	39	69	130	219
Positive Bussing Possibility	By using spare jumpers.				
Negative Bussing Possibility	By using spare jumpers.				
Power ON Indication	3 mm Red LED				
Fuse Fail Indication Relay Module	Green LED for Input, Red LED for Output				
Fuse Fail Indication Voltage	24 VAC/DC, 110 VAC/DC, 230 VAC/DC				
Relay Protection	Using 1N4007 Freewheeling Diode.				
Ambient Temperature (Operation)	-20° C ... 50° C				
Mounting Types**	DIN32 / DIN35 / DIN35-15 ** PANEL				
Housing Insulation Material	PVC / V0 Grade				
Housing Colour	Green				

CONNECTION DATA

Type of Connection	Screw Connection
Wire Connection Possibility	0.5 - 2.5 sq.mm / 30 -14 AWG
Stripping Length	8.3 mm
Torque	4.5 lb-in / 0.5 Nm

* Module Lengths mentioned are for RAIL Mounting option only.
The lengths may vary for PANEL Mounting

** PANEL Mounting relay modules are available on request.
Please use the suffix -P with the cat. no. for ordering.

RELAY DATA(Relays other than OMRON are available on request.)

Relay Make / Series	OMRON/G2R-1	OMRON/G2R-2
Contact Type	1CO (SPDT)	2CO (DPDT)
Rated Current	10A @230 VAC; 10A @30 VDC	5A @230 VAC; 5A @30 VDC
Relay Approvals		

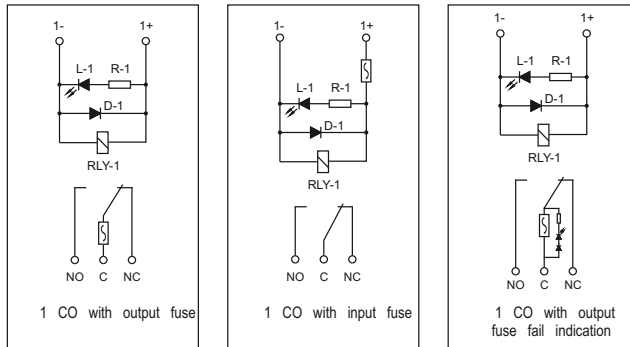
RELAY COIL DATA

Rated Coil Voltage	12 VDC	24 VDC	110 VAC	230 VAC
Coil Resistance (ohms)	275	1100	4600	26850
Rated Coil Current (mA)	43.6	21.8	11.0	4.7
Must Operate Voltage	70% max. of rated voltage		80% max. of rated voltage	
Must Release Voltage	15% max. of rated voltage		30% max. of rated voltage	
Max. Voltage	110% max. of rated voltage			
Other Coil Voltages	Voltages like 6 VDC, 48 VDC, 240VAC are available on request.			

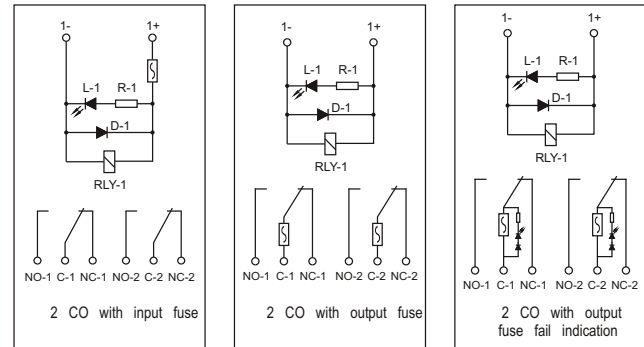
RELAY CONTACT DATA

Contact Material	AgCdO
Max. Switching Voltage	380 VAC, 125 VDC
Max. Mechanical Operating Frequency	18,000 operations/hr
Max. Electrical Operating Frequency	1,800 operations/hr (under rated load)
Mechanical Life Expectancy	20,000,000 operations min. for DC coil & 10,000,000 operations min. for AC coil
Electrical Life Expectancy	100,000 operations min. (at max. operation frequency and max. load current)

1 CO Circuit Diagrams



2 CO Circuit Diagrams



FUSE HOLDER DATA	Cap Design	Flat	FUSE DATA	Fuse Size	5 x 20 mm
	Fuse Link Size	5 x 20 mm		Fuse Type	Fast Blow/Slow Blow
	Mounting Style	Horizontal		Fuse Ratings (A)	0.1, 0.5, 0.63,
	Rated Current	6.3 A			1, 2, 3, 4, 5, 6, 6.3

ORDERING INFORMATION

1 CO FUSED RELAY MODULES

12 VDC COIL VOLTAGE					24 VDC COIL VOLTAGE				
	# of Channels	With Pluggable Relays	With Soldered Relays			# of Channels	With Pluggable Relays	With Soldered Relays	
With Fuse at Output	1	IMRE1SSF1/12/OM	IMRE1SF1/12/OM	Relays	With Fuse at Output	1	IMRE1SSF1/24/OM	IMRE1SF1/24/OM	Relays
	2	IMRE1SSF2/12/OM	IMRE1SF2/12/OM			2	IMRE1SSF2/24/OM	IMRE1SF2/24/OM	
	4	IMRE1SSF4/12/OM	IMRE1SF4/12/OM			4	IMRE1SSF4/24/OM	IMRE1SF4/24/OM	
	8	IMRE1SSF8/12/OM	IMRE1SF8/12/OM			8	IMRE1SSF8/24/OM	IMRE1SF8/24/OM	
	16	IMRE1SSF16/12/OM	IMRE1SF16/12/OM			16	IMRE1SSF16/24/OM	IMRE1SF16/24/OM	
With Fuse at Input	1	IMREF1SS1/12/OM	IMREF1S1/12/OM	Relays	With Fuse at Input	1	IMREF1SS1/24/OM	IMREF1S1/24/OM	Relays
	2	IMREF1SS2/12/OM	IMREF1S2/12/OM			2	IMREF1SS2/24/OM	IMREF1S2/24/OM	
	4	IMREF1SS4/12/OM	IMREF1S4/12/OM			4	IMREF1SS4/24/OM	IMREF1S4/24/OM	
	8	IMREF1SS8/12/OM	IMREF1S8/12/OM			8	IMREF1SS8/24/OM	IMREF1S8/24/OM	
	16	IMREF1SS16/12/OM	IMREF1S16/12/OM			16	IMREF1SS16/24/OM	IMREF1S16/24/OM	
With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE1SSFI1/12/1	IMRE1SFI1/12/1	Relays	With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE1SSFI1/24/1	IMRE1SFI1/24/1	Relays
	2	IMRE1SSFI2/12/1	IMRE1SFI2/12/1			2	IMRE1SSFI2/24/1	IMRE1SFI2/24/1	
	4	IMRE1SSFI4/12/1	IMRE1SFI4/12/1			4	IMRE1SSFI4/24/1	IMRE1SFI4/24/1	
	8	IMRE1SSFI8/12/1	IMRE1SFI8/12/1			8	IMRE1SSFI8/24/1	IMRE1SFI8/24/1	
	16	IMRE1SSFI16/12/1	IMRE1SFI16/12/1			16	IMRE1SSFI16/24/1	IMRE1SFI16/24/1	
With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE1SSFI1/12/2	IMRE1SFI1/12/2	Relays	With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE1SSFI1/24/2	IMRE1SFI1/24/2	Relays
	2	IMRE1SSFI2/12/2	IMRE1SFI2/12/2			2	IMRE1SSFI2/24/2	IMRE1SFI2/24/2	
	4	IMRE1SSFI4/12/2	IMRE1SFI4/12/2			4	IMRE1SSFI4/24/2	IMRE1SFI4/24/2	
	8	IMRE1SSFI8/12/2	IMRE1SFI8/12/2			8	IMRE1SSFI8/24/2	IMRE1SFI8/24/2	
	16	IMRE1SSFI16/12/2	IMRE1SFI16/12/2			16	IMRE1SSFI16/24/2	IMRE1SFI16/24/2	
With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE1SSFI1/12/3	IMRE1SFI1/12/3	Relays	With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE1SSFI1/24/3	IMRE1SFI1/24/3	Relays
	2	IMRE1SSFI2/12/3	IMRE1SFI2/12/3			2	IMRE1SSFI2/24/3	IMRE1SFI2/24/3	
	4	IMRE1SSFI4/12/3	IMRE1SFI4/12/3			4	IMRE1SSFI4/24/3	IMRE1SFI4/24/3	
	8	IMRE1SSFI8/12/3	IMRE1SFI8/12/3			8	IMRE1SSFI8/24/3	IMRE1SFI8/24/3	
	16	IMRE1SSFI16/12/3	IMRE1SFI16/12/3			16	IMRE1SSFI16/24/3	IMRE1SFI16/24/3	

1 CO & 2 CO FUSED RELAY MODULES

FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

ORDERING INFORMATION

1 CO FUSED RELAY MODULES

110 VAC COIL VOLTAGE				230 VAC COIL VOLTAGE			
	# of Channels	With Pluggable Relays	With Soldered Relays		# of Channels	With Pluggable Relays	With Soldered Relays
With Fuse at Output	1	IMRE1SSF1/110A/OM	IMRE1SF1/110A/OM	With Fuse at Output	1	IMRE1SSF1/230A/OM	IMRE1SF1/230A/OM
	2	IMRE1SSF2/110A/OM	IMRE1SF2/110A/OM		2	IMRE1SSF2/230A/OM	IMRE1SF2/230A/OM
	4	IMRE1SSF4/110A/OM	IMRE1SF4/110A/OM		4	IMRE1SSF4/230A/OM	IMRE1SF4/230A/OM
	8	IMRE1SSF8/110A/OM	IMRE1SF8/110A/OM		8	IMRE1SSF8/230A/OM	IMRE1SF8/230A/OM
	16	IMRE1SSF16/110A/OM	IMRE1SF16/110A/OM		16	IMRE1SSF16/230A/OM	IMRE1SF16/230A/OM
With Fuse at Input	1	IMREF1SS1/110A/OM	IMREF1S1/110A/OM	With Fuse at Input	1	IMREF1SS1/230A/OM	IMREF1S1/230A/OM
	2	IMREF1SS2/110A/OM	IMREF1S2/110A/OM		2	IMREF1SS2/230A/OM	IMREF1S2/230A/OM
	4	IMREF1SS4/110A/OM	IMREF1S4/110A/OM		4	IMREF1SS4/230A/OM	IMREF1S4/230A/OM
	8	IMREF1SS8/110A/OM	IMREF1S8/110A/OM		8	IMREF1SS8/230A/OM	IMREF1S8/230A/OM
	16	IMREF1SS16/110A/OM	IMREF1S16/110A/OM		16	IMREF1SS16/230A/OM	IMREF1S16/230A/OM
With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE1SSFI1/110A/1	IMRE1SFI1/110A/1	With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE1SSFI1/230A/1	IMRE1SFI1/230A/1
	2	IMRE1SSFI2/110A/1	IMRE1SFI2/110A/1		2	IMRE1SSFI2/230A/1	IMRE1SFI2/230A/1
	4	IMRE1SSFI4/110A/1	IMRE1SFI4/110A/1		4	IMRE1SSFI4/230A/1	IMRE1SFI4/230A/1
	8	IMRE1SSFI8/110A/1	IMRE1SFI8/110A/1		8	IMRE1SSFI8/230A/1	IMRE1SFI8/230A/1
	16	IMRE1SSFI16/110A/1	IMRE1SFI16/110A/1		16	IMRE1SSFI16/230A/1	IMRE1SFI16/230A/1
With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE1SSFI1/110A/2	IMRE1SFI1/110A/2	With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE1SSFI1/230A/2	IMRE1SFI1/230A/2
	2	IMRE1SSFI2/110A/2	IMRE1SFI2/110A/2		2	IMRE1SSFI2/230A/2	IMRE1SFI2/230A/2
	4	IMRE1SSFI4/110A/2	IMRE1SFI4/110A/2		4	IMRE1SSFI4/230A/2	IMRE1SFI4/230A/2
	8	IMRE1SSFI8/110A/2	IMRE1SFI8/110A/2		8	IMRE1SSFI8/230A/2	IMRE1SFI8/230A/2
	16	IMRE1SSFI16/110A/2	IMRE1SFI16/110A/2		16	IMRE1SSFI16/230A/2	IMRE1SFI16/230A/2
With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE1SSFI1/110A/3	IMRE1SFI1/110A/3	With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE1SSFI1/230A/3	IMRE1SFI1/230A/3
	2	IMRE1SSFI2/110A/3	IMRE1SFI2/110A/3		2	IMRE1SSFI2/230A/3	IMRE1SFI2/230A/3
	4	IMRE1SSFI4/110A/3	IMRE1SFI4/110A/3		4	IMRE1SSFI4/230A/3	IMRE1SFI4/230A/3
	8	IMRE1SSFI8/110A/3	IMRE1SFI8/110A/3		8	IMRE1SSFI8/230A/3	IMRE1SFI8/230A/3
	16	IMRE1SSFI16/110A/3	IMRE1SFI16/110A/3		16	IMRE1SSFI16/230A/3	IMRE1SFI16/230A/3

ORDERING INFORMATION

2 CO FUSED RELAY MODULES

12 VDC COIL VOLTAGE					24 VDC COIL VOLTAGE				
	# of Channels	With Pluggable Relays	With Soldered Relays			# of Channels	With Pluggable Relays	With Soldered Relays	
With Fuse at Output	1	IMRE2SSF1/12/OM	IMRE2SF1/12/OM		With Fuse at Output	1	IMRE2SSF1/24/OM	IMRE2SF1/24/OM	
	2	IMRE2SSF2/12/OM	IMRE2SF2/12/OM			2	IMRE2SSF2/24/OM	IMRE2SF2/24/OM	
	4	IMRE2SSF4/12/OM	IMRE2SF4/12/OM			4	IMRE2SSF4/24/OM	IMRE2SF4/24/OM	
	8	IMRE2SSF8/12/OM	IMRE2SF8/12/OM			8	IMRE2SSF8/24/OM	IMRE2SF8/24/OM	
	16	IMRE2SSF16/12/OM	IMRE2SF16/12/OM			16	IMRE2SSF16/24/OM	IMRE2SF16/24/OM	
With Fuse at Input	1	IMREF2SS1/12/OM	IMREF2S1/12/OM		With Fuse at Input	1	IMREF2SS1/24/OM	IMREF2S1/24/OM	
	2	IMREF2SS2/12/OM	IMREF2S2/12/OM			2	IMREF2SS2/24/OM	IMREF2S2/24/OM	
	4	IMREF2SS4/12/OM	IMREF2S4/12/OM			4	IMREF2SS4/24/OM	IMREF2S4/24/OM	
	8	IMREF2SS8/12/OM	IMREF2S8/12/OM			8	IMREF2SS8/24/OM	IMREF2S8/24/OM	
	16	IMREF2SS16/12/OM	IMREF2S16/12/OM			16	IMREF2SS16/24/OM	IMREF2S16/24/OM	
With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE2SSF1/12/1	IMRE2SF1/12/1		With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE2SSF1/24/1	IMRE2SF1/24/1	
	2	IMRE2SSF2/12/1	IMRE2SF2/12/1			2	IMRE2SSF2/24/1	IMRE2SF2/24/1	
	4	IMRE2SSF4/12/1	IMRE2SF4/12/1			4	IMRE2SSF4/24/1	IMRE2SF4/24/1	
	8	IMRE2SSF8/12/1	IMRE2SF8/12/1			8	IMRE2SSF8/24/1	IMRE2SF8/24/1	
	16	IMRE2SSF16/12/1	IMRE2SF16/12/1			16	IMRE2SSF16/24/1	IMRE2SF16/24/1	
With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE2SSF1/12/2	IMRE2SF1/12/2		With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE2SSF1/24/2	IMRE2SF1/24/2	
	2	IMRE2SSF2/12/2	IMRE2SF2/12/2			2	IMRE2SSF2/24/2	IMRE2SF2/24/2	
	4	IMRE2SSF4/12/2	IMRE2SF4/12/2			4	IMRE2SSF4/24/2	IMRE2SF4/24/2	
	8	IMRE2SSF8/12/2	IMRE2SF8/12/2			8	IMRE2SSF8/24/2	IMRE2SF8/24/2	
	16	IMRE2SSF16/12/2	IMRE2SF16/12/2			16	IMRE2SSF16/24/2	IMRE2SF16/24/2	
With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE2SSF1/12/3	IMRE2SF1/12/3		With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE2SSF1/24/3	IMRE2SF1/24/3	
	2	IMRE2SSF2/12/3	IMRE2SF2/12/3			2	IMRE2SSF2/24/3	IMRE2SF2/24/3	
	4	IMRE2SSF4/12/3	IMRE2SF4/12/3			4	IMRE2SSF4/24/3	IMRE2SF4/24/3	
	8	IMRE2SSF8/12/3	IMRE2SF8/12/3			8	IMRE2SSF8/24/3	IMRE2SF8/24/3	
	16	IMRE2SSF16/12/3	IMRE2SF16/12/3			16	IMRE2SSF16/24/3	IMRE2SF16/24/3	

1 CO & 2 CO FUSED RELAY MODULES

FUSE AT OUTPUT | FUSE AT INPUT | FUSE FAIL INDICATION

ORDERING INFORMATION

2 CO RELAY MODULES WITH FUSE FAIL INDICATION

110 VAC COIL VOLTAGE					230 VAC COIL VOLTAGE				
	# of Channels	With Pluggable Relays	With Soldered Relays			# of Channels	With Pluggable Relays	With Soldered Relays	
With Fuse at Output	1	IMRE2SSF1/110A/OM	IMRE2SF1/110A/OM	Relays	With Fuse at Output	1	IMRE2SSF1/230A/OM	IMRE2SF1/230A/OM	Relays
	2	IMRE2SSF2/110A/OM	IMRE2SF2/110A/OM			2	IMRE2SSF2/230A/OM	IMRE2SF2/230A/OM	
	4	IMRE2SSF4/110A/OM	IMRE2SF4/110A/OM			4	IMRE2SSF4/230A/OM	IMRE2SF4/230A/OM	
	8	IMRE2SSF8/110A/OM	IMRE2SF8/110A/OM			8	IMRE2SSF8/230A/OM	IMRE2SF8/230A/OM	
	16	IMRE2SSF16/110A/OM	IMRE2SF16/110A/OM			16	IMRE2SSF16/230A/OM	IMRE2SF16/230A/OM	
With Fuse at Input	1	IMREF2SS1/110A/OM	IMREF2S1/110A/OM		With Fuse at Input	1	IMREF2SS1/230A/OM	IMREF2S1/230A/OM	
	2	IMREF2SS2/110A/OM	IMREF2S2/110A/OM			2	IMREF2SS2/230A/OM	IMREF2S2/230A/OM	
	4	IMREF2SS4/110A/OM	IMREF2S4/110A/OM			4	IMREF2SS4/230A/OM	IMREF2S4/230A/OM	
	8	IMREF2SS8/110A/OM	IMREF2S8/110A/OM			8	IMREF2SS8/230A/OM	IMREF2S8/230A/OM	
	16	IMREF2SS16/110A/OM	IMREF2S16/110A/OM			16	IMREF2SS16/230A/OM	IMREF2S16/230A/OM	
With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE2SSFI1/110A/1	IMRE2SFI1/110A/1		With Fuse Fail Indication for 24 V AC/DC Output	1	IMRE2SSFI1/230A/1	IMRE2SFI1/230A/1	
	2	IMRE2SSFI2/110A/1	IMRE2SFI2/110A/1			2	IMRE2SSFI2/230A/1	IMRE2SFI2/230A/1	
	4	IMRE2SSFI4/110A/1	IMRE2SFI4/110A/1			4	IMRE2SSFI4/230A/1	IMRE2SFI4/230A/1	
	8	IMRE2SSFI8/110A/1	IMRE2SFI8/110A/1			8	IMRE2SSFI8/230A/1	IMRE2SFI8/230A/1	
	16	IMRE2SSFI16/110A/1	IMRE2SFI16/110A/1			16	IMRE2SSFI16/230A/1	IMRE2SFI16/230A/1	
With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE2SSFI1/110A/2	IMRE2SFI1/110A/2		With Fuse Fail Indication for 110 V AC/DC Output	1	IMRE2SSFI1/230A/2	IMRE2SFI1/230A/2	
	2	IMRE2SSFI2/110A/2	IMRE2SFI2/110A/2			2	IMRE2SSFI2/230A/2	IMRE2SFI2/230A/2	
	4	IMRE2SSFI4/110A/2	IMRE2SFI4/110A/2			4	IMRE2SSFI4/230A/2	IMRE2SFI4/230A/2	
	8	IMRE2SSFI8/110A/2	IMRE2SFI8/110A/2			8	IMRE2SSFI8/230A/2	IMRE2SFI8/230A/2	
	16	IMRE2SSFI16/110A/2	IMRE2SFI16/110A/2			16	IMRE2SSFI16/230A/2	IMRE2SFI16/230A/2	
With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE2SSFI1/110A/3	IMRE2SFI1/110A/3		With Fuse Fail Indication for 230 V AC/DC Output	1	IMRE2SSFI1/230A/3	IMRE2SFI1/230A/3	
	2	IMRE2SSFI2/110A/3	IMRE2SFI2/110A/3			2	IMRE2SSFI2/230A/3	IMRE2SFI2/230A/3	
	4	IMRE2SSFI4/110A/3	IMRE2SFI4/110A/3			4	IMRE2SSFI4/230A/3	IMRE2SFI4/230A/3	
	8	IMRE2SSFI8/110A/3	IMRE2SFI8/110A/3			8	IMRE2SSFI8/230A/3	IMRE2SFI8/230A/3	
	16	IMRE2SSFI16/110A/3	IMRE2SFI16/110A/3			16	IMRE2SSFI16/230A/3	IMRE2SFI16/230A/3	