Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)



General features

- Micro-Controller Unit based
- Real time processing / High precision
- Protections : Over current, Under current, Phase loss, Phase reversal, Stall, Jam, Current imbalance, Earth fault (i3MZ/iFMZ), Short circuit (i3MS/iFMS)
- Thermal protection / Inverse available up to 32Amps without external CTs.
- Auxiliary functions : Fail safe, Pre-alarm (i3DM/iFDM), Accumulated running hour, 3 fault records & limitation of auto-restart. Analog output (i3M420/iFM420).
- Communication : Modbus / RS-485
- Reinforced monitoring function : Monitoring distance up to 400M, 3 phase current display, Pre-alarm (i3DM/iFDM) & Trip cause indication
- Bar graph indication of a load current to the current setting.
- Available application on single and 3 phase motor
- RoHS Compliance
- For iFDW/iFMZ/iFMS/iFM420, normal protections are guaranteed even if PDM is disconnected.



Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Protection functions

Protection item	Condition & Setting range	Operation time
Over current (oc)	Condition : Load current (In) exceeds setting current (Is) Setting range : 0.5~60A (Def), 0.5~32A (Inv & th)	Definite (Def) : 0.2~30s Adjust. Inverse (Inv) & Thermal (th) : 1~30 class
Under current (uc)	Condition : Load current (In) less than setting currentIn \leq uc uc should be less than oc setting	oFF, 1~10s Adjustable
Phase loss (PL)	Condition : max imbalance is more than 85% among 3 phase current, Enable or disable : Selectable	oFF, 0.5~5s Adjustable
Reverse phase (RP)	Condition : Reversed phase sequence input on EOCR. Enable or disable : Selectable	Within 0.15s
Stall (Sc)	Condition : In ≥ Stall current setting (Sc). Active only in motor starting 0.5~30A : 2~8 times of oc setting ~40A : 2~6 times, ~60A : 2~4 times.	Right after D-time elapsed
Jam (JA)	Condition : In ≥ Jam current setting (JA). Active only in motor running 0.5~50A : 1.5~5 times of oc setting ~60A : 1.5~4 times of oc setting	0.2~5s Adjustable
Imbalance (IM)	Condition : Current imbalance \geq Setting imbalance % Setting range : 10~50% of imbalance	1~10s Adjustable
Earth fault (EF)	Condition : EF current (Ie) exceeds setting current (Ies) OFF, 0.03~10A	0.05~5s Adjustable i3MZ/iFMZ only
Short circuit (SH)	Condition : SC current (Is) exceeds setting current (Iss) 0.5~10A : 2~22 times of oc setting, ~20A : 2~11 times of oc setting	0.05sec i3MS/iFMS only

Auxiliary functions

	1
Password	For secured setting parameters
Communication	Monitoring currents and trip status by network
Phase selection	For single phase / three phase motor selection
TCC selection	Available three time-current-characteristics (Definite, Inverse, Thermal inverse)
CT ratio	For the current setting more than 60A (20A : i3MS/iFMS) and less than 0.5A
Fail safe selection	Fail safe operation for OL trip output
Pre alarm selection	Pre alarm signaling by the 07-08 output contact i3MS/iFDM only
Total running hour	Total accumulated running hour from the installation which cannot be modified and reset.
Running hour	Display or provied a time-out signal to the 07-08 output contact i3MS/iFDM only
Reset mode	Manual / Auto / Electrical ; selectable
Trip cause memory	Store the latest 3 trip causes
Restart limitation	The maximum auto-restart number within 30 minutes in auto-reset mode.

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Specifications

Model		i3DM / iFDM, i3MZ/iFMZ, i3MS/iFMS, i3M420/iFM420			
		Rated setting range (A)	Definite TCC : 0.5~60A. : use external CT higher than 60A		
Over current			i3MS/iFMS : 0.5~20A : use external CT higher th	han 20A	
			Inverse & th TCC : 0.5~32A. use external CT hig	gher than32A	
Under current Rated setting range (A)		0.5A ~ less than oc setting			
Operating time cha	racteristics		Definite(Def) / Inverse(Inv) / Thermal(th)		
D-time		D-time	0~200s		
	Der	O-time	0.2~30s		
Inv & th (cLS)			1~30 classes		
	GF delay time	(Edt)	0~30s (i3MZ/iFMZ)		
Time setting	GF O-time (Et)		0.05~10s (i3MZ/iFMZ)		
	SH delay time	(SHd)	0~30s (i3MS/iFMS)		
	SH O-time		Within 0.05s fixed (i3MS/iFMS)		
	Auto-reset		0.5s~20min.		
	Reset mode		Manual reset (H-r) / Electric reset (E-r) / Auto-res	set (A-r)	
	Voltage		100~240VAC/DC(85% ~110%, Free voltage), 2	4VAC/DC(±5%)	
Control power	Frequency		50/60Hz		
	Power consum	ption	Lower than 7VA		
	Capacity		3A/250VAC resistive.		
Output	Composition		1a1b : OC (i3DM/iFDM, i3MS/iFMS, i3M420/iFM420)		
	Composition		1a : GR (i3MZ/iFMZ), or AL (i3DM/iFDM), or SH (i3MS/iFMS)		
Diaplay	7 Segment LE	0	3 phase amps, Cause of trip, Setting parameters indication.		
Display	Bar graph		Load factor.		
Communication			Modbus/ RS-485		
Mounting			Panel mounting (i3DM/i3MZ/i3MS/i3M420)		
wounung			Flush mounting (iFDM/iFMZ/iFMS/iFM420)		
Insulation		Between case & Circuit	Over DC500V 10MΩ		
		Between case & Circuit	2kV, 50/60Hz, I Min.		
Dielectric strength		Between contacts	1kV, 50/60Hz, I Min.		
		Between circuit	2kV, 50/60Hz, 1 Min		
Electrostatic discha	arge (ESD)	IEC61000-4-2	Level 3 : Air discharge : ±8KV, Contact discharg	e : ±6KV	
Radiated disturban	се	IEC61000-4-3	Level 3 : 10V/m, 80 ~ 1000MHz		
Conducted disturb	ance	IEC61000-4-6	Level 3 : 10V,0.15~80MHz		
EFT/Burst		IEC61000-4-4	Level 3 : ±2KV, 1 Min		
Surge		IEC61000-4-5	Level 3 : 1.2 x 50µs, ±4KV (0°, 90°, 180°, 270°)		
Emission		CISPR11	Class A (Conducted and radiated)		
	Tomporaturo	Store	-40°C ~ +85°C		
Environment	remperature	Operation	20°C ~ +60°C		
	Humidity		30~85% RH (Non-condensate)		
Dimension		Window type	70W × 74.5H × 83.8D		
		Bottom hole type	70W × 56.3H × 108.1D		
			i3DM / i3MZ / i3MS / i3M420	iFDM / iFMZ / iFMS / iFM420	
		Window type	330g	420g	
Weight		Bottom hole type	370g	460g	
		Terminal type	370 + 120(PDM) = 490g	460 + 120(PDM) = 580g	
	-	Display (W/3M cable)	-	125g	
Power consumptio	n		Less than 7VA.		

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Front face









3 phase load currents (In) and a leakage current (**i3MZ/iFMZ)** are displayed every 2 seconds in sequence.

Bar graph

- it shows the load factor to OC setting value by %
- % value = (running current/setting current) * 100%
- Min scale is 65%
- if the setting value is the rated motor current,
- it shows the load factor of the motor.

Current Display

- Shows the highest current among three phases for OC, Stall, Jam trips.
- · Shows the lowest current among three phases for UC, UB
- · Shows the lost phase for PL.
- · Shows the phase and the current during running.

Amp : Ampere. LED is on when a current display.

- x 10 : Shows the unit changed to 10 times.
- Sec : Second. LED is on when a time display.

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

3 phase digital ammeter function



Blocking display rotation can be done by pressing the SET button once during running. whenever press the SET button, the each phase current displays by turns. A fixed phase current display can be done by this.

* Pressing the ESC button, it returns to the Auto current display rotation mode.

Buttons and setting sequence

Button Display	Function
▲ UP ▼ DN	Press the UP or DN button to find the menu you want to set. For menus, see the descriptions on setting sequence and display.
SET	Press the SET button once to send a signal to the relay that notifies it that the setting process will begin. Then, the number or characters you want to set will start to flicker. This indicates that you can now change the setting.
▲ UP ▼ DN	Press the UP or DN button to find the number or characters you want to set.
SET	If the characters or number you want to set is displayed, press the SET button for the relay to save it. The character or number then stops flickering. This indicates that the setting has been saved.
ESC	Press the ESC button to return to the current display. If you do not press ESC button for over 50 seconds after the setting is made, it will automatically return to the current display.

** Fault History View: In Fault History View mode, you can check the fault history, from the most recent fault to the oldest fault. While checking the history, the most recent fault cause, fault current, and fault phase will be displayed. Every time you press the DN button, the values for L1, L2, L3, (earth fault current), L1-L2, L2-L3, L3-L1 will be displayed, in this order. To check the previous fault history, press the DN button again. While the fault history is being displayed, a bar graph will show the display info of the most recent fault only on the 100% LED. The display info of the next-most-recent fault will be displayed on the two LEDs of 95% and 100%, and for the third-most-recent fault info, all three LEDs of 90%, 95%, and 100% will show the fault info. If you press ESC briefly while viewing the fault history, it will switch to the circulation display of current and voltage. If you press the UP or DN button, among the LEDs of L1, L2, and L3 on the left side, the LED of the corresponding phase will display the fault current on the left side. For all other displays, the fault item info will be displayed as well. The history of up to 3 faults is saved, with the oldest history overwritten by a new fault when it occurs.

Setting sequence



Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Setting sequence and menu

No.	Menu	Parameter	Description	Default
1	Password	Pd:000	Use password other than zero for secured settings. This feature enables limitation of setting modification by unauthorized person. Zero value is used for disabling password checking.	P <i>4:000</i>
2	Selection of Phase No.	Ph: 3Ph Ph: 1Ph	"Ph:3Ph" mode for a 3 phase load, "Ph:1Ph" mode for a 1 phase load should be selected. If you select the "Ph:1Ph", RP, PL and Ub functions will be disabled and not displayed in the menu mode	Ph: 3Ph
3	3 Operation curve	<u>te c:dE</u> te c: In te c:th te c:no	Time-current characteristic(TCC) setting. "dE" is for definite TCC, "In" is for inverse TCC, "th" is for thermal Inverse TCC. Refer to the time-current characteristic curve. If tcc=no, only overcurrent protection is disabled	te cidt
4	CT ratio	<u>ct:non ct:200</u> <u>ct: 2t ct:800</u> ct: 5t	External CT ratio setting mode. This is applied to definite TCC; higher than 60A and inverse TCC; higher than 32A. Set the primary value of the external CT. For example, 200:5 CT, setting is "ct:200". For the low-range current "ct: 2t" is for 2 pass through, "ct: 5t" is for 5 pass through. Select "ct:non" in case of no externel CT and no loop.	ctinan
5	Frequency	Fr 9:60 Fr 9:50	Frequency setting mode. Select 50 or 60 based on the system fundamental frequency.	Fr 9:57
6	Fail safe	FS: on FS:oFF	Selection of fail safe(No volt release) mode for overload trip output, OL. Refer to fail-safe operation	FSinFF
7	Reversed phase detection	<u>rP:_on</u> _rP:oFF	Enable or disable reverse phase detection	rP:oFF
8	Over current threshold	oc: 35°	Threshold for over current protection . this value cannot be set below the under current threshold (uc).	ac: 5,7*
9	Start delay time	<i>dt:</i> 5.	Motor starting delay, OC, UC, Stall, Jam, Ub are blocked during starting but PL, RP are not blocked. For "In" TCC mode, the cold curve is appled before dt expires and, the hot curve is applied after dt expires.	<i>dt: 5</i> .
10	Over current duration (Trip delay time / Trip class)	at: 5.	 (tcc:dE) ; the fault(over current) duration of definite overcurrent protection. (tcc:ln) ; the trip class for inverse overcurrent protection(refer to TCC curve) (tcc:th) ; the thermal overload protection based on the thermal image by load current (refer to TCC curve). 	ot: 5.
11	Under current threshold	LIE: <u>[].5</u>	Threshold for under current protection. The setting should be higher than no-load current of a motor. The current value cannot be set higher than OC.	uc:cFF
12	Under current duration (Trip delay time)	ue: 5.	Fault (under current) duration for the under current Operation. If the setting of "oFF" in the "uc" mode is selected, this menu is not displayed	<u></u> : 5.
13	Earth fault (Ground fault) threshold	Ec:0.051	Threshold for earth fault protection. The capacitance leakage current of the motor and cable should be taken into account for the setting. The threshold value corresponds to the primary current of ZCT	Ec: 0.5
14	Earth fault trip delay time	<i>EE:0.05</i> *	Earth fault duration (Trip delay time) TCC is definite characteristic	EE:1 .
15	EF starting delay	Edt: 5.	Blocking time of Earth Fault detection during motor starting. OFF, 1~30s adjustable This timer is only active during motor starting.	Edt: 0.
16	Short circuit current threshold	5H: 12	Threshold for short circuit detection. This value is the multiples of the over current threshold (oc). The SC fault duration is fixed to 0.05 second.	5 <i>H: 10</i>

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Setting sequence and menu

No.	Menu	Parameter	Description	Default
17	SC starting delay	5 <i>H d</i> : 7,	Blocking time of short circuit detection during motor starting. This timer is only active during motor starting.	SHd: D.
18	Phase loss	PL: on PL:off	Enable or disable phase loss(Single phasing) detection. If the "Ph:1Ph" is selected, this menu is not displayed.	PL: on
19	Phase loss time	PLE: 3.	Fault duration for phase loss operation. The setting range is 0.5~5 sec. if "PL:oFF" is selected, this menu is not displayed	Pt E: 3.
20	Imbalance threshold	<i>Lib: 15</i>	Threshold for current imbalance operation. To disable the function, set to "oFF", the setting range is 10~50%. Imbalance factor (%) = $(I_{max \ phase} - I_{min_phase}) / I_{max_phase} \times 100\%$	<i>Lib: 15</i>
21	Imbalance fault duration	Ubt: 5	Imbalance fault duration (trip delay time) for current imbalance operation. The setting range is 1~10 seconds.	1157: 2
22	Stall threshold	<u>5</u> _c : 4	Threshold for locked rotor detection during motor starting. The value is the multiples of the over current threshold(oc). If the locked rotor condition is detected, the trip relay operates in 0.5s after the "dt" expires. If dt=0, this function is disabled and not displayed in the menu. Setting range : $oc=0.4$ -30A:2~8times, $oc < 40A$:2~6times, otherwise ($oc<60A$) : 2~4times, (with Ext. CT : 2~8times)	<u>5</u> .: 4
23	Jam threshold	_ <i></i>	Threshold for locked rotor detection during motor running. The value is the multiples of the over current threshold (oc). Setting : $oc=0.4$ ~50A : 1.5~5times, otherwise ($oc<60A$) : 4times, (with Ext. CT : 15~5times)	JR: 4
24	Jam fault duration	<i></i>	Jam fault duration (trip delay time) Setting : 0.2~10 sec	_#: <u>3</u> .
25	420 Output range		Reference value for max analog output (20mA) If the load current is equal or greater than this value, analog output is fixed to 20mA	
		r 5: 5.0°	Threshold of Alert output, set by % of the over current threshold (oc). If the load current is higher than this value, alert output(07-08 contact) is energized according to the setting of "ALo : XX".	r 5: 5.0°
		AL: 85 AL:0FF	If the load current is detected, alert output(07-08 contact) is energized. The alert threshold is no meaning for this operation. Refer to the alert operation pattern.	
26	Alert	RLa: R	If the load current is higher than the alert threshold, alert output(07-08 contact) repeats open for 1s and close for 1s (flickering), The flickering starts from the motor starting. Refer to the alert operation pattern.	
		RLo: F	If the load current is higher than the alert threshold, alert output(07-08 contact) is closed (holding) and remains closed until the load current decrease under the alert threshold. The alert output is blocked during motor starting. Refer to the alert operation pattern.	
		RLa: K	If the accumulated running hour is more than the running hour threshold, the alert output repeats close for 1s and open for 1s.	
		RLata	The alert output is used only for under current protection. If this mode is selected, a trip by an under current fault is signaled through alert output (07-08), instead of overload trip output(95-96 or 97-98).	

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Setting sequence and menu

No.	Menu	Parameter	Description	Default
		rt:E-r	Fault reset (Electrical reset) by a power cycle or by pressing the ESC button.	rt:E-r
27	Reset	<u></u>	Fault reset (Hand reset) by only pressing the ESC button.	
		rt:8-r 8r: 15. 8r:20n	Fault reset (Auto Reset) by a auto-reset timer, Setting range of the timer : 0.5sec~20min. Also the fault can be reset by power cycle or by ESC button. The relay cannot be reset automatically when the relay is tripped by Phase Reversal(rP), Phase Loss(PL), Stall(Sc) and Jam(JA)	rnia FF
28	Restart limitation	r n: 3	The maximum auto-restart number during 30 minutes in auto-reset mode. The auto-restart counter (count) is stored in the non-volatile memory and is cleared by pressing ESC button when the counter(count) reaches the limitation. To disable limitation, select "oFF". Setting range : oFF~5 times.	
29	Total running hour	-trh- 033	In this menu, toggle display, "-trh-" and the accumulated (time) value, is activated (?) The accumulation starts from the installation and the user cannot clear the accumulated value. This display unit is 1 hour.	read only
30	Running hour	r h - 43.3	In this menu, toggle display, "rh-" and the accumulated value, is activated (?) The user can clear the accumulated value by selecting the running hour threshold to "rh:oFF". This display unit is 0.1 hour (6 minutes). By selecting "ALo:to", the user can get the alert signal through alert output (07-08) when the accumulated value is more than the running hour threshold.	read only
31	Running hour threshold	rh: 10.	Threshold for alert output when the user selects "ALo:to". The unit is 10 hours and this menu is not displayed when the motor is starting or running. Setting range : 10~9990 hours, oFF	
		Rd : 1	Modbus slave (ID) address. Range : 1 ~ 247.	<i>Rd</i> : I
		<u>67: 192</u> 67:384	Setting for communication speed Range : 1.2kbps, 2.4Kbps, 4.8Kbps, 9.6Kbps,19.2Kbps, 38.4Kbps.	<i>6.P: 19,2</i>
32	Communication	Pr:Eun Pr:nem	Parity setting Range : odd, even, non.	Pr:Eun
		LE:0FF [LE:999]	Duration (communication. alarm trigger delay) for communication loss detection. Displays alarm when no new communication data is received for the duration. If "oFF" is selected, no monitoring for communication channel is activated. Setting range : 1~999 sec, oFF	Lt:off
33	Test trip	<u> </u>	When this menu activated, OL trip signal and enabled short or EF trip signal is generated when (3s+ot) expires. The display shows "End" when the test is done. By pressing ESC, returns to the load current display mode. This menu is not displayed when the motor is starting or running. Before (3s+ot) expires, pressing ESC or motor starting or running blocks the test trip and return to the load current display. No parameter	No parameter
34	End	End	This shows the end of test trip. Test result is stored in the fault record.	No parameter

#2 => These are applied to i3MS & iFMS only.

#3 => This is applied to i3M420 & iFM420 only.

#4 => This is applied to i3DM & iFDM only.

* Menusfrom password to reversed phase detection are not displayed during the motor running.

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Alert operation pattern (i3DM & iFDM only)

Running ALo Stage Selection	Starting	Norma Operation	Higher than the preset Alert value	Trip
Aux $(\mathcal{R}_{LQ}; \mathcal{R})$				
Flicker ($\boxed{P_{L,D}; F}$)				
Hold ($\mathbb{H}_{L_{O}}$: \mathbb{H})				

- ALo "A" : Ampere relay function (The 07-08 output contact is closed when a current is detected)
- ALo "F" : Flickering (When a current flows, the output contact is closed and repeating the close and open on it in a higher current than the AL setting.)
- ALo "H" : Holding (The output contact is closed in a higher current than the AL setting).
- \bullet ALo "uc" : Applied to "uc" (under current protection) output contact.
- ALo "to" : When a running hour time is elapsed over the "rh" set value, the output contact repeats the close open.

Fail-safe operation

Fail-Safe	A1-A2 not powered	A1-A2 powered and under normal operation	A1-A2 powered and Tripped
	95 Ø / Ø 96 Close	95 Ø— 🔶 Ø6 Open	95 Ø 🕂 Ø 96 Close
ON	97 Ø— – Ø 98 Open	97 Ø / Ø 98 Close	97 Ø— – Ø 98 Open
055	95 Ø / Ø 96 Close	95 Ø / Ø 96 Close	95 Ø Ø 96 Open
OFF	97 Ø— – Ø 98 Open	97 Ø— – Ø 98 Open	97 Ø / Ø 98 Close

Trip cause indication and fault records

3 fault records including the trip cause and 3phase currents are stored in a non-volatile memory.

When the motor is running or stopped, trip cause can be navigated by pressing ESC button over 5seconds

		Trip indicatio	n		
	Trip		Indication af	ter trip with UP/ DN butto	on pressing
Trip cause	Indication	Contents of indication	L1 LED on	L2 LED on	L3 LED on
Over current	'ac: 35'	OC Trip caused by r(L1)- phase current	· <u>.</u>	· <u>3</u> .4'	. 34
Phase loss	· PL - r	Phase Loss caused by r(L1)- phase lost	• []]]*	· <u>5</u> .5	. 55
Reversed phase	- r P -	Phase reversal trip	· <u>-</u> , 4	· <u>3</u> .4*	• _7.4*
Stall	•55:35,2*	Stall trip during motor starting caused by s(L2)-phase curren	· <u>348</u> .	•	
Jam	18: 15.8	Jam trip during motor running caused by t(L3)-phase current	· //C_///* //_/	• "[]]]	. 15,31
Imbalance	.Llb: 4.2°	Imbalance trip caused by t(L3)- phase current	• <u>(</u> []]• 	· 5.8°	. <i>4.c</i> ⁷
Under current	·uc: 1.5 `	Under current trip caused by s(L2)-phase current	· 27.7.	• 15	. <i>ב</i> י.בי
Earth fault (i3MZ/iFMZ)	: <i>EF:DD.</i> 5*	Earth fault(Earth leakage) trip with Earth fault current indication	· <u>3.5</u> ·	· <u>3</u> 4	. <u> </u>
Short circuit (i3MS/iFMS)	• <i>58:128</i> *	Short Circuit trip caused by s(L2)-phase current	· /2/;*	· 128*	. 20
Limitation of auto-restart	rn:Ful	In 30minutes, the number of auto-restar by auto-reset exceeds the setting	For emergency restart, ma counter to zero.	anual reset by pressing ESC	clears the restart

Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Time-current characteristic curve



Definite characteristic



Thermal inverse characteristic



Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Current setting range

Setting range	Number of pass through the CT hole	External CT ratio	CT setting	Remark
0.5 ~ 60A	1	No CT combination	ב ביה ביה	
0.25 ~ 3A	2	No CT combination	<i>εί: ε^γέ</i>	
0.1 ~ 1.2A	5	No CT combination	ct: St	
0.5 ~ 32A	1	No CT combination		Inverse TCC or thermal Inverse TCC
0.5 ~ 60A	1	No CT combination		Definite TCC
10 ~100A	1	100 : 5		Definite or inverse (th)
20 ~200A	1	200 : 5	<u></u>	Definite or inverse (th)
30 ~ 300A	1	300 : 5	ct:300	Definite or inverse (th)
40 ~ 400A	1	400 : 5	<u>ct:400</u>	Definite or inverse (th)
50 ~ 500A	1	500 : 5	בב:בנוגו	Definite or inverse (th)
60 ~ 600A	1	600 : 5		Definite or inverse (th)
70 ~ 700A	1	700 : 5	בב: ונוגו	Definite or inverse (th)
80 ~ 800A	1	800 : 5		Definite or inverse (th)

Typical wiring schematic



Bottomhole type







Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Typical wiring schematic









Basic model : EOCR-i3DM (Z, S, 420) / iFDM (Z, S, 420)

Control terminals











EOCR-i3MS/IFMS		
	A1 A2 47 48 95 96 97 98 V- D1 D0 S	Modbus Communication
Control power		OL NO output
SH NO output		OL NC output









EOCR-IFXX	iF	<u>DM</u> - <u>WR</u>	D U 6 0			
Window CT		Model name	i3DM		Basic model	
			i3MZ		GF model	
	0		i3M420		4~20mA output model	
			i3MS		SC model	
Bottom CT		Current Range	WR		0.5~60A	
					0.5~20A (iFMS)	
			H1		100:5 3CT combination type	
	0		НН		150:5 3CT combination type	
1.1.1			H2		200:5 3CT combination type	
- 250°			H3		300:5 3CT combination type	
100			H4		400:5 3CT combination type	
Terminal		Output contact type	i3MZ	Α	a(97-98) :OC, a(57-58) : GR	
				С	b(95-96), a(97-98) : OC.GR common	
	3			D	b(95-96) :OC, a(57-58) : GR	
			D		b(95-96), a(97-98)	
Constanting of the second	•	Control voltage	В		24VAC/DC	
	4		U		100~240VAC/DC	
		CT type	w		Window type	
	6		Н		Bottom hole type	
			т		Terminal type	
combination type	6	Export code	Q			
combination type		1			·	

Ordering										
Display	EOCR-PDMQ									
250*										
Cable connector	CABLE - RJ45 - 001									
	0	Connector type	R.145							
	•	Cable length	0043		0.5	m				
			001		1.0					
M			001		1 [-				
	0		01H		1.5					
			002		2 m	1				
			003		3 m					
			Others	\$	Cus	stom made				
Square 3 CT	0	CT ratio	H1-100-C HH-150-C H2-200-C H3-300-C H4-400-C		Square 3CT 100:5 Square 3CT 150:5 Square 3CT 200:5 Square 3CT 300:5 Square 3CT 400:5					
SR-CT	SR	<u>-3CT</u> - 100								
	0	CT ratio	S1	10	0	100:5				
			SH	15	0	150:5				
			S2	20	0	200:5				
			S3	30	0	300:5				
			S4	40	0	400:5				
ZCT	ZCT - 035									
egeter.	0	Inner-diameter	035		35mm					
			080		80mm					
			120		120mm					