

Innovation of EOCSRSP

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Aug.25 - 2016Y

What have changed – EOCR-SP new

OLD



NEW



Control Voltage	Power circuit : Capacitor drop type B : 24 V AC/DC, F : 110 V AC, M : 220 V AC, Y : 90...260 V AC, etc.	Power circuit : Capacitor drop type B : 24 V AC/DC, F : 100~120 V AC, M : 220~240 V AC/DC
Current Measurement	Used Hybrid IC Peak value measurement with E/I transformer	Used MCU True RMS with Toroidal Transformer * Applicable for SCR and Inverter load
EMC Durability	Surge immunity : 2 kV	Surge immunity : 4 kV and 30% improving for Harmonic, ESD, others.
Mechanical Resistance	2g, Vibration resistance 15g, Shock resistance	3g, Vibration resistance 15g, Shock resistance
Product Quality	700 PPM for OQP	400 PPM for OQP
EOL (Ambient Tem. 40°)	5.2 years, Capacitors life duration	13 years, Capacitors life duration

What have changed – EOCR-SP new

OLD

Protection	Over current : 0.3 ... 40 A, Definite type Locked rotor by over current Phase loss by over current
Functions	Fail safe : separated N or R type Test/Reset : 2 buttons type
Time (sec)	Operation time : 0.5...15s Delay time : 0.5...30s for EOCRSP40 only
Accuracy (%)	Current : $\pm 10\%$ or 0.3A less than 2.0A Time : $\pm 15\%$ or 0.3s less than 2.0s
Output Contact	5A/250 V AC 1 NC/NO, 1c : SP20 1NC + 1NO, 1a1b : SP40
Power consumption	Less than 1W
Certification	CE certification
Dimensions(mm)	47(W) x 70(D) x 72.5(H) : SP20 56(W) x 80.5(D) x 78(H) : SP40
Weight(g)	130.0g : SP20 165.6g : SP40

NEW

Protection	Over current : 0.3 ... 40 A, Definite type Locked rotor by over current Phase loss by over current
Functions	Fail safe : separated N or R type Test/Reset : 1 button type
Time (sec)	Operation time : 0.5, 1 ... 15s
Accuracy (%)	Current : $\pm 10\%$ or 0.2A less than 2.0A Time : $\pm 15\%$ or 0.2s less than 2.0s
Output Contact	3A/250 V AC 1 NC/NO, 1c : SP20, SP40
Power consumption	Less than 1W
Certification	CE certification
Dimensions(mm)	46(W) x 71(D) x 75.1(H) : SP20, SP40
Weight(g)	142.5 g : SP20, SP40

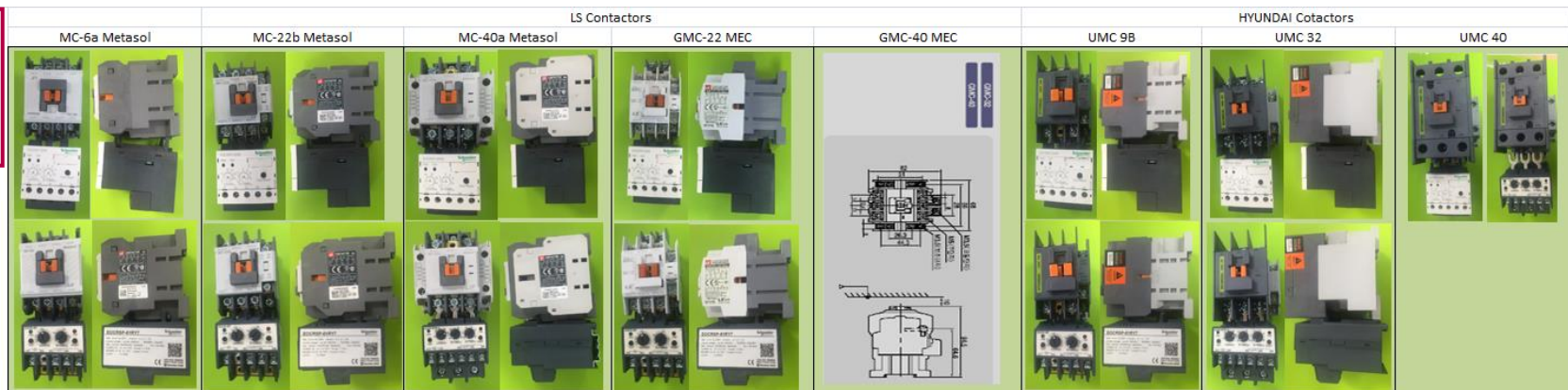
Magnetic Contactors 직결검토

> Control voltage : Y7(220 V AC free) type은 M (220~240 V AC) type 으로 정리

Reference		LS					HYUNDAI			DONGA		DACO(대륙)	
		MC-6a Metasol	MC-22b Metasol	MC-40a Metasol	GMC-22 MEC	GMC-40 MEC	UMC 9B	UMC 32	UMC 40	DMC22b	DMC40b	MC 22s SMART	MC 40s SMART
EOCRSP	New	X ⁽¹⁾	O	O	O	O	O	O	X	O	O	O	O
	Old	O	O	O	O	O	O	X ⁽²⁾	X	O	O	O	O
Reference		Schneider-Electric		FUJI			ABB						
		LC1 E09 TeSys E	LC1 D12	SC-03/0/05	SC-4-0	SC-N1/N2	AF 26~38 A	AF 09~16 A	AF 40~65 A				
EOCRSP	New	O	X	X	X	X	O	O	X				
	Old	O	X	O	X	X	O	O	X				



Models



Compare “CR” Old vs. New

> Control voltage : Y7(220 V AC free) type은 M (220~240 V AC) type 으로 정리

기존 Reference	Current material Status	Description of reference	대체 Reference	Current material Status	Description of reference
EOCRSP-01NF7	Active	EOCR-SP 01 N 110	EOCRSP01NF	Active	EOCR-SP 01 N 100~120
EOCRSP-01NM7	Active	EOCR-SP 01 N 220(ONLY)	EOCRSP01NM	Active	EOCR-SP 01 N 220~240
EOCRSP-01RB	Active	EOCR-SP 01 R 24	EOCRSP01RB	Active	EOCR-SP 01 R 24
EOCRSP-01RY7	Active	EOCR-SP 01 R 220(FREE)	EOCRSP01RM	Active	EOCR-SP 01 R 220~240
EOCRSP-01RY7D	Active	EOCR-SP DONGA 01 R 220	TBD		
EOCRSP-10NB	Active	EOCR-SP 10 N 24	EOCRSP10NB	Active	EOCR-SP 10 N 24
EOCRSP-10NF7	Active	EOCR-SP 10 N 110	EOCRSP10NF	Active	EOCR-SP 10 N 100~120
EOCRSP-10NM7	Active	EOCR-SP 10 N 220(ONLY)	EOCRSP10NM	Active	EOCR-SP 10 R 220~240
EOCRSP-10NM7Q	Active	EOCR-SP EP 10 N 220(ONLY)	EOCRSP10NM	Active	EOCR-SP 10 R 220~240
EOCRSP-10NM7TQ	Active	EOCR-SP TECO 10 N 220(ONLY)	TBD		EOCR-SP TECO 10 N 220~240
EOCRSP-10NY7	Active	EOCR-SP 10 N 220(FREE)	EOCRSP10NM	Active	EOCR-SP 10 R 220~240
EOCRSP-10NY7TQ	Active	EOCR-SP TECO 10 N 220(FREE)	TBD		EOCR-SP TECO 10 N 220~240
EOCRSP-10RB	Active	EOCR-SP 10 R 24	EOCRSP10RB	Active	EOCR-SP 10 R 24
EOCRSP-10RY7	Active	EOCR-SP 10 R 220(FREE)	EOCRSP10RM	Active	EOCR-SP 10 R 220~240
EOCRSP-10RY7D	Active	EOCR-SP DONGA 10 R 220(FREE)	TBD		
EOCRSP-10RY7Q	Active	EOCR-SP EP 10 R 220(FREE)	EOCRSP10RM	Active	EOCR-SP 10 R 220~240
EOCRSP-20NB	Active	EOCR-SP 20 N 24	EOCRSP20NB	Active	EOCR-SP 20 N 24
EOCRSP-20NF7	Active	EOCR-SP 20 N 110	EOCRSP20NF	Active	EOCR-SP 20 N 100~120
EOCRSP-20NM7	Active	EOCR-SP 20 N 220(ONLY)	EOCRSP20NM	Active	EOCR-SP 20 N 220~240
EOCRSP-20NY7	Active	EOCR-SP 20 N 220(FREE)	EOCRSP20NM	Active	EOCR-SP 20 N 220~240
EOCRSP-20NY7Q	Active	EOCR-SP EP 20 N 220(FREE)	EOCRSP20NM	Active	EOCR-SP 20 N 220~240
EOCRSP-20NY7TQ	Active	EOCR-SP TECO 20 N 220(FREE)	TBD		EOCR-SP TECO. 20 N 220~240
EOCRSP-20RB	Active	EOCR-SP 20 R 24	EOCRSP20RB	Active	EOCR-SP 20 R 24
EOCRSP-20RY7	Active	EOCR-SP 20 R 220(FREE)	EOCRSP20RM	Active	EOCR-SP 20 R 220~240
EOCRSP-20RY7D	Active	EOCR-SP DONGA 20 R 220(FREE)	TBD		
EOCRSP-40NB	Active	EOCR-SP 40 N 24	EOCRSP40NB	Active	EOCR-SP 40 N 24
EOCRSP-40NM7	Active	EOCR-SP 40 N 220(ONLY)	EOCRSP40NM	Active	EOCR-SP 40 N 220~240
EOCRSP-40RB	Active	EOCR-SP 40 R 24	EOCRSP40RB	Active	EOCR-SP 40 R 24
EOCRSP-40RF7	Active	EOCR-SP 40 R 110	EOCRSP40RF	Active	EOCR-SP 40 R 100~120
EOCRSP-40RM7	Active	EOCR-SP 40 R 220(ONLY)	EOCRSP40RM	Active	EOCR-SP 40 R 220~240