

FICHA TECNICA ACTUALIZADA

Actuador Electrico MXTR

Modelo: MXTR



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SIINPRO - Sinergia Industrial de Procesos S.A. de C.V.



ACTUADOR ELÉCTRICO MXTR

FEATURES

- | | |
|--|--|
| <ul style="list-style-type: none"> • Enclosure • Power Supply • Control Power Supply • OutY Cycle (Modulating) • Motor • Limit Switch es • Additional Limit Switch es • Torque Switches • Stall Protection/Operating Temp' • Travel angle • Indicator • ManualOverride • Sell Locking • Mechanical Stopper • Space Heater • Cable Entries • Materials • Ambient Temperature | <p>Weatherpool Enclosure IP67, NEMA 4 ANO 6</p> <p>110/220 AC 1PH,380/440V AC 3PH 50/60 Hz, + 10%</p> <p>110/220V AC 1PH,50/60 Hz, + 10%</p> <p>S2, 100 'lo Max 30 Min</p> <p>S4, 70% Max 300-1600 Star/Hour</p> <p>Open/Close, SPDT,250V AC 16A Rating</p> <p>Open/Close,SPDT,250V AC 16A Rating (Except MXTR-008/01 0</p> <p>Open/Close, SPDT,250V AC 16A Rating (Except MXTR-008/01 0</p> <p>Built-in Thermal Protection,Open 150°C+5°C/Close 97°C+ 15°C</p> <p>90° + 10° (0-110°)</p> <p>Contunuous Position Indicator</p> <p>Declutching Mechanism</p> <p>Provided by Double worm Gearing</p> <p>2 X External Adjustable Screws</p> <p>10W(110/220V AC) Anti-Condensation</p> <p>Three PF3/4" Tap (Standard Type Only)</p> <p>Steel, Aluminium Alloy, Al Bronze, Polycarbonate</p> |
|--|--|



(Standard cam)



(Cam block)

- 2 travel limit switches for operation
- 2 auxiliary limit switches as dry contact for customer usage
- Easy setting from upside by two screws for tight lockup
- Each cam be set independently



Proportional Control Unit (PCU)

- Input signal range : 0-10VDC, 1-5VDC, 4-20mA, 20-4mA
- Output signal range : 4-20mA, 0-10VDC
- Adjustable range : Zero 8mA, Open 16mA
- Position conversion accuracy : ±0.5-1.5%(depends on installation)



(D-Type cam)



Potentiometer Kit (PIU)

- 0-1K ohm(±0.5%), high resolution



Fire Proofing Actuator (FPA)



Rechargeable Battery Backup



ACTUADOR ELÉCTRICO

MXTR

PERFORMANCE

MXTR MODEL	Maximum output torque	Operating time(sec.) 60/50Hz	Maximum bore size	Motor class F power(W) 60Hz/50Hz		Rated current(A) 60Hz/50Hz				Duty cycle IEC 34-1	Number of handle turn	Weight
						1 Phase		3 Phase				
	Kg-m	90°	mm	1 Phase	3 Phase	110V	220V	380V	440V	S4(%)	N	Kg
MXTR-008	8	13/16	φ 20	106/103	N/A	1.00/0.97	0.45/0.45	N/A	N/A	70	10	7.4
MXTR-010	10	16/20	φ 20	106/103	N/A	1.00/0.97	0.47/0.45	N/A	N/A	70	10	7.4
MXTR-015	15	21/25	φ 22	185/166	112/216	1.70/1.50	0.84/0.73	0.28/0.37	0.36/0.59	70	11	16.6
MXTR-020	20	21/25	φ 22	185/166	112/216	1.70/1.50	0.84/0.73	0.28/0.37	0.36/0.59	70	11	16.6
MXTR-030	30	26/31	φ 35	177/148	130/171	1.67/1.37	0.81/0.68	0.27/0.33	0.34/0.55	70	13.5	22
MXTR-050	50	26/31	φ 35	390/410	184/236	3.56/4.27	1.30/1.40	0.42/0.51	0.47/0.66	70	13.5	23
MXTR-060	60	26/31	φ 35	390/410	184/236	3.56/4.27	1.30/1.40	0.42/0.51	0.47/0.66	70	13.5	23
MXTR-080	80	31/37	φ 45	483/389	312/427	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	16.5	29
MXTR-120	120	31/37	φ 45	483/389	312/427	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	16.5	29
MXTR-200	200	93/112	φ 65	483/389	312/427	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	49.5	75
MXTR-300	300	93/112	φ 65	483/389	312/427	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	49.5	75

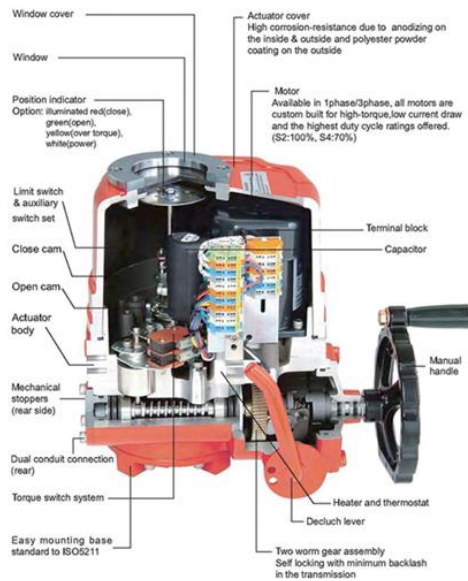
OPTION SPECIFICATION

EXA	Explosionproof Enclosure Actuator (E exd II B T4)	Series MXTR
WTA	Watertight Enclosure Actuator (IP68 10 M 72 HR)	Series MXTR
PIU	Potentiometer Unit (0-1 k ^o)	Series MXTR
PCU	Proportional Control Unit (Input,Output 0-10V DC, 4-20 mA DC)	Series MXTR
ATS	Additional Torque Switches (SPDT x 2EA 250V AC 10A Rating)	Except MXTR-008/010
LCU-B	Inegral Control (LCU + IMS + PHASE Protect Indicator)	Except MXTR-008/011
LCU-C	Digital Display Control (LCU + IMS + Auto Phase Discriminator)	Except MXTR-008/012
CPT	Current Position Transmitter (Output 4-20 mA DC)	Series MXTR
EXT	Extension 120°,180°,270° Turn	Except MXTR-200,300
RBP	Rechargeable Battery Backup	MXTR-008/010,015,020,030
DCM	DC Motor (24 V DC)	MXTR-008/010,015,020,031
ADCM	Multi AC/DC 24V (integral)	MXTR-008/010,015,020,032
LPA	Lever Plate Actuator	MXTR-008/010,015,020,033
SLU	Signal Lamp Unit (White-Power on, Red-Open, Green-Close, Yellow-Over Torque)	MXTR-008/010,015,020,034
FPA-1	Fire Proofing Actuator 1050 ± 5°C / 50 min	Engineering Consult in Advance
FPA-2	Fire Proofing Actuator 250 ± 5°C / 150 min	Engineering Consult in Advance



ACTUADOR ELÉCTRICO MXTR

CONSTRUCTION



DIMENSION

MODEL	Base/SO5211	A	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	X	Y	Z
	Φ C	B	(mm)																		
MXTR-008	F07 Φ 70	M8 12	20	88	3	32	50	157	51	100	70	182	53	40	60	120	-	-	258	170	235
MXTR-010	F07 Φ 70	M8 12	20	88	3	32	50	157	51	100	70	182	53	40	60	120	-	-	258	170	235
MXTR-015	F07/F10 Φ 70 Φ 102	M8/M10 12/15	22	125	3	42	73	200	65	142	87	200	68	54	78	160	-	-	338	229	268
MXTR-020	F07/F10 Φ 70 Φ 102	M8/M10 12/15	22	125	3	42	73	200	65	142	87	200	68	54	78	160	-	-	338	229	268
MXTR-030	F10/F12 Φ 102 Φ 125	M10/M12 15/18	35	148	3	49	82	221	65	160	99	221	69	65	78	180	-	-	368	259	290
MXTR-050	F10/F12 Φ 102/Φ 125	M10/M12 15/18	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	368	259	304
MXTR-060	F10/F12 Φ 102/Φ 125	M10/M12 15/18	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	368	259	304
MXTR-080	F12/F14 Φ 125/Φ 140	M12/M16 18/24	45	178	3	57	103	242	65	186	111	256	74	78	110	210	-	-	410	297	330
MXTR-120	F12/F14 Φ 125/Φ 140	M12/M16 18/24	45	178	3	57	103	242	65	186	111	256	74	78	110	210	-	-	410	297	330
MXTR-200	F14/F16 Φ 140/Φ 165	M16/M20 24/30	65	245	5	90	103	242	65	186	133	256	74	78	110	210	233	133	410	319	563
MXTR-300	F14/F16 Φ 140/Φ 165	M16/M20 24/30	65	245	5	90	103	242	65	186	133	256	74	78	110	210	233	133	410	319	563

STANDARD CONFIGURATION



Terminal Block

- Enough number of terminal strips for customer's convenience.
- Proven reliability and tight wiring connection.
- Stripped length: 8-9 mm / 0.33in (2.5 mm²)
- Terminal dimension: 10X22X32mm.



Heater

- Ceramic housing with thermostat to prevent over heat comparing with set temperature.
- No risk of electricity leakage.



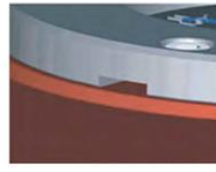
Captive cover bolt

- Cover bolts are specially designed to prevent losing it during maintenance or installation.
- All external bolts are stainless steel for rust prevention.



Indicator sustained by spring

- Direction of visual indicator is set by factory.
- In case of changing it's direction, just grip the indicator plate and change the position.
- Spring beneath indicator plate sustains the set position unchanged.
- No need to loose screw and thight it again at all!



Slot on window cover for draining rainwater

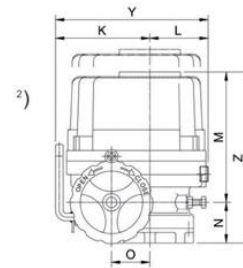
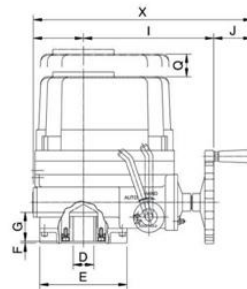
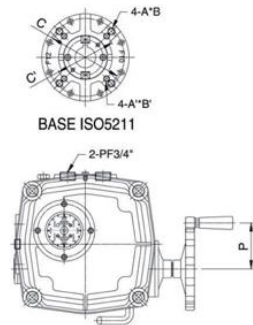
- Rainwater inside of window cover may affect the sealing of window.
- To prevent this, drain slot is useful to prevent this effect.



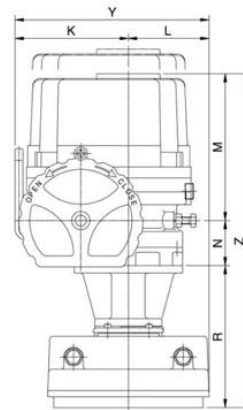
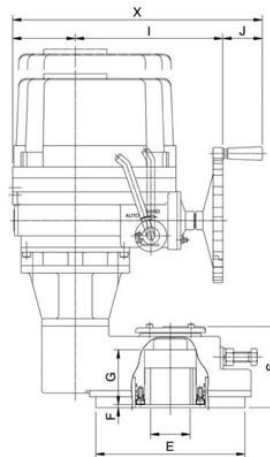
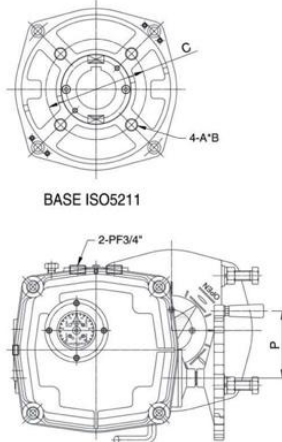
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DIMENSIONAL DRAWING

MXTR-008, MXTR-010, MXTR-015, MXTR-020, MXTR-030, MXTR-060, MXTR-080, MXTR-120



MXTR-200, MXTR-300

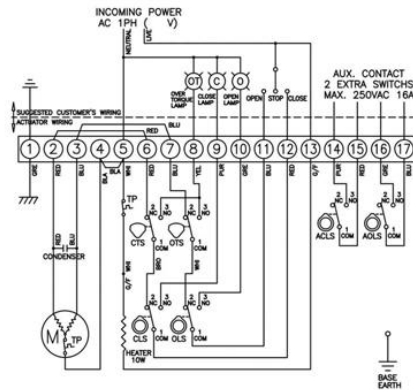




ACTUADOR ELÉCTRICO MXTR

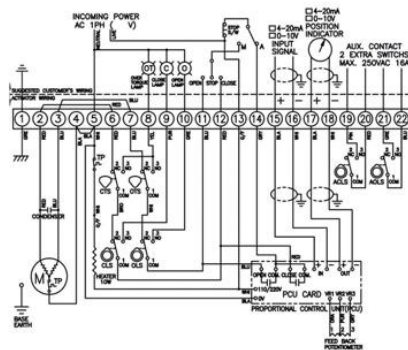
DIMENSIONAL DRAWING

STANDARD TYPE (1- PHASE, 50/60HZ)



TORQUE AND LIMIT SWITCH OPERATION		
SWITCH	CLOSE	INTERMEDIATE → OPEN
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PROPORTIONAL TYPE (1- PHASE, 50/60HZ)



YAW AND LIMIT SWITCH OPERATION			
SWITCH	CLOSE	INTERMEDIATE	OPEN
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GLS 1-4			
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ACTUADOR ELÉCTRICO MXTR

ELECTRIC ACTUATOR LCU-B: INTEGRAL CONTROL

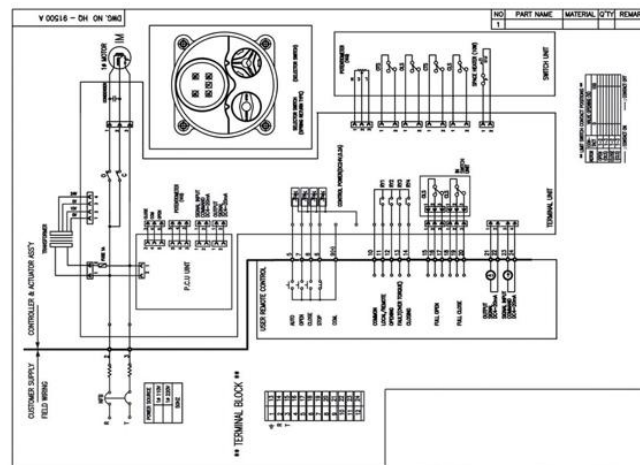
- Light , compact & Integrated design (IMS, local/remote control)
- Wide range of electric power application
- 1 $\neq$ AC 110-220 V 50/60 HZ
- 3 $\neq$ AC 220-460V 50/60 HZ
- Phase protect monitoring by LED in case of wrong wiring
- Easy application for MXTR- series actuators
- Various option available (DUTY CYCLE:70%)

LED lamp signal

White	○	: Power
Blue	●	: Remote
Yellow	●	: Fault
Red	●	: Open/ Opening
Green	●	: Close/ Closing



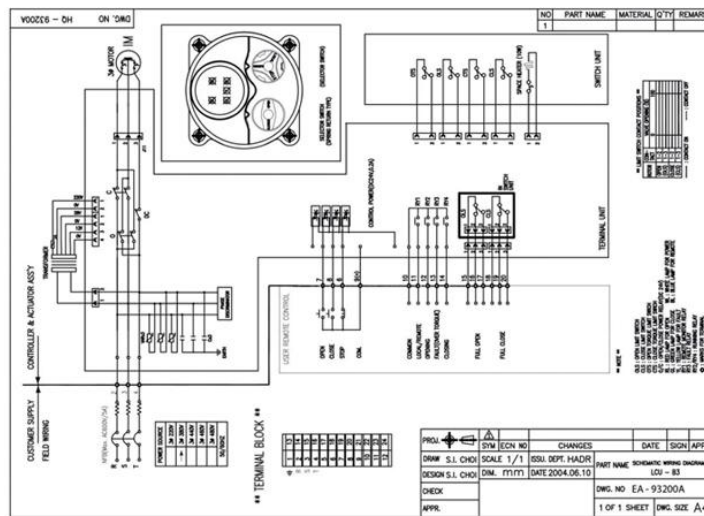
LCU-B WIRING (1-PHASE, 50/60HZ, PROPORTIONAL TYPE)



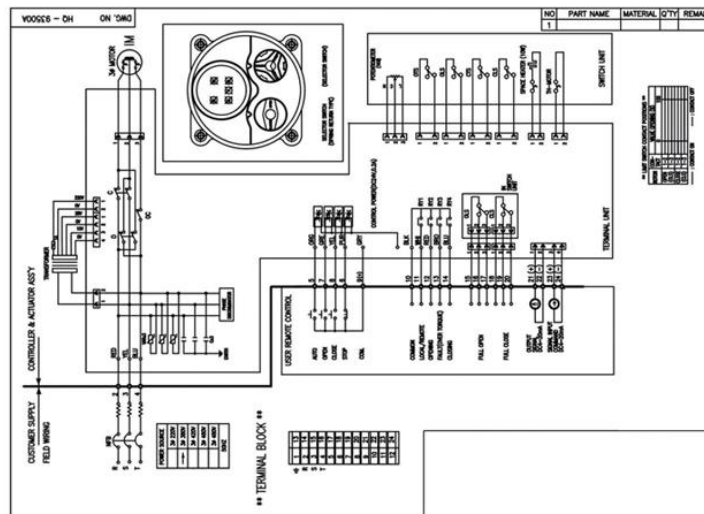


ACTUADOR ELÉCTRICO MXTR

LCU-B WIRING (3-PHASE, 50/60HZ, ON-OFF TYPE)



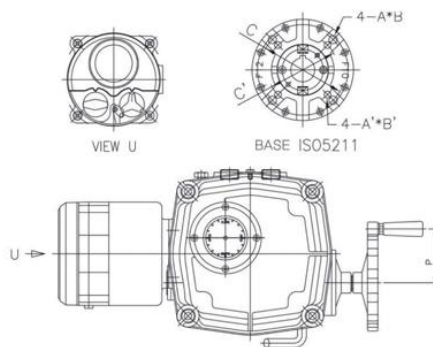
LCU-B WIRING (3-PHASE, 50/60HZ, PROPORTIONAL TYPE)



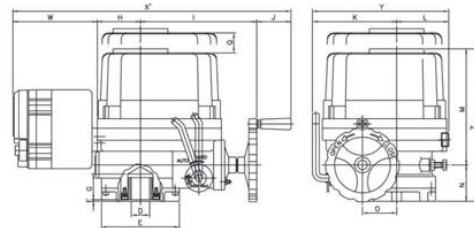


ACTUADOR ELÉCTRICO MXTR

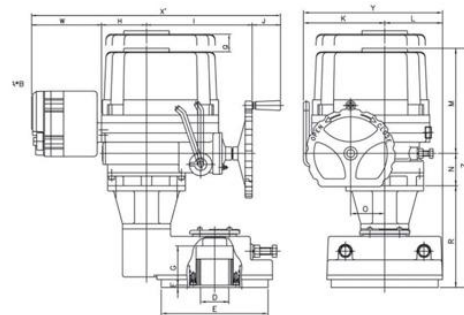
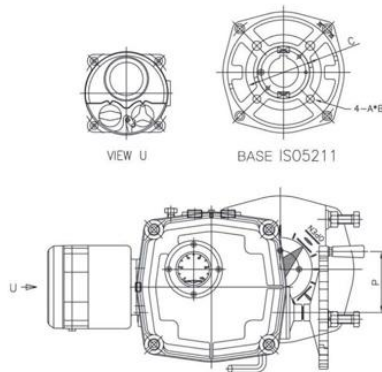
DIMENSIONAL DRAWING (WITH LCU-B)



MXTR015



EA200, EA300



DIMENSION (WITH LCU-B)

MODEL	Base ISO5211	A	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X	Y	Z
	ØC	B	(mm)																					
MXTR-015	R07F10 Ø70/Ø102	MBM0 1215	22	125	3	42	73	200	65	142	87	200	68	54	78	180	-	-	160	498	229	268		
MXTR-020	R07F10 Ø70/Ø102	MBM0 1215	22	125	3	42	73	200	65	142	87	200	68	54	78	180	-	-	160	498	229	268		
MXTR-030	F10F12 Ø102/Ø125	MEGM2 1518	35	148	3	49	82	221	65	160	99	221	69	65	78	180	-	-	160	528	259	290		
MXTR-050	F10F12 Ø102/Ø125	MEGM2 1518	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	160	528	259	304		
MXTR-060	F10F12 Ø102/Ø125	MEGM2 1518	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	160	528	259	304		
MXTR-080	F12F14 Ø125/Ø140	M2MF6 1824	45	178	3	57	103	242	65	186	111	256	74	78	110	210	-	-	160	570	297	330		
MXTR-120	F12F14 Ø125/Ø140	M2MF6 1824	45	178	3	57	103	242	65	186	111	256	74	78	110	210	-	-	160	570	297	330		
MXTR-200	F14F16 Ø140/Ø165	M6'MX0 24790	65	245	5	90	103	242	65	186	133	256	74	78	110	210	233	133	160	570	319	563		
MXTR-300	F14F16 Ø140/Ø165	M6'MX0 24790	65	245	5	90	103	242	65	186	133	256	74	78	110	210	233	133	160	570	319	563		



ACTUADOR ELÉCTRICO MXTR

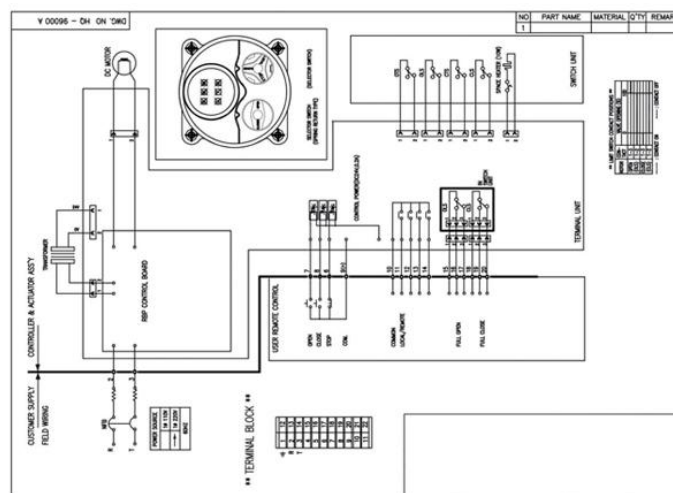
RBP: RECHARGABLE BATTERY BACKUP

- Emergency Application when Power Failed at Site
- 1 Phase Power
- Litium Battery
- Indication of battery Level
- Automatic Recharge
- 5 Times Operation per Hour

LED lamp signal	
White	○ : Power
GBR	● : Battery level
Blue	● : Remote
Yellow	● : Fault
Red	● : Open/ Opening
Green	● : Close/ Closing



LCU-B WIRING (1-PHASE, 50/60HZ, PROPORTIONAL TYPE)





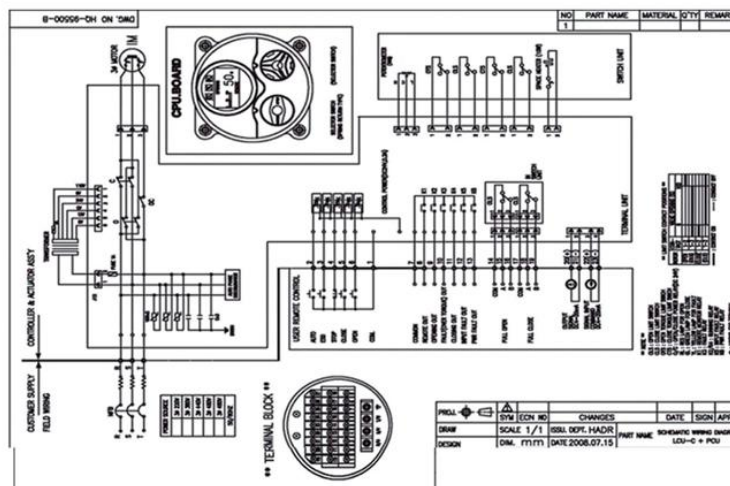
ACTUADOR ELÉCTRICO MXTR

LCU-C: DIGITAL DISPLAY CONTROL

- Light, Compact & Integrated Desing
- Wide Range of Electric Power Application
- (AC 220V - AC460V/3-Phase, No Fuse Break Max.AC600V/5A)
- Built-in auto Phase Discriminator (Easy & Convenient Wiring)
- Digital Indicator with Numer, Bar Graph & Literature
- Seperate Terminal Chamber
- (Realiabe against water, vibration, temp, etc)
- Easy Application For MXTR - Series Actuators
- Various Option Available



LCU-C WIRING (3-PHASE, 50/60HZ, PROPORTIONAL TYPE)

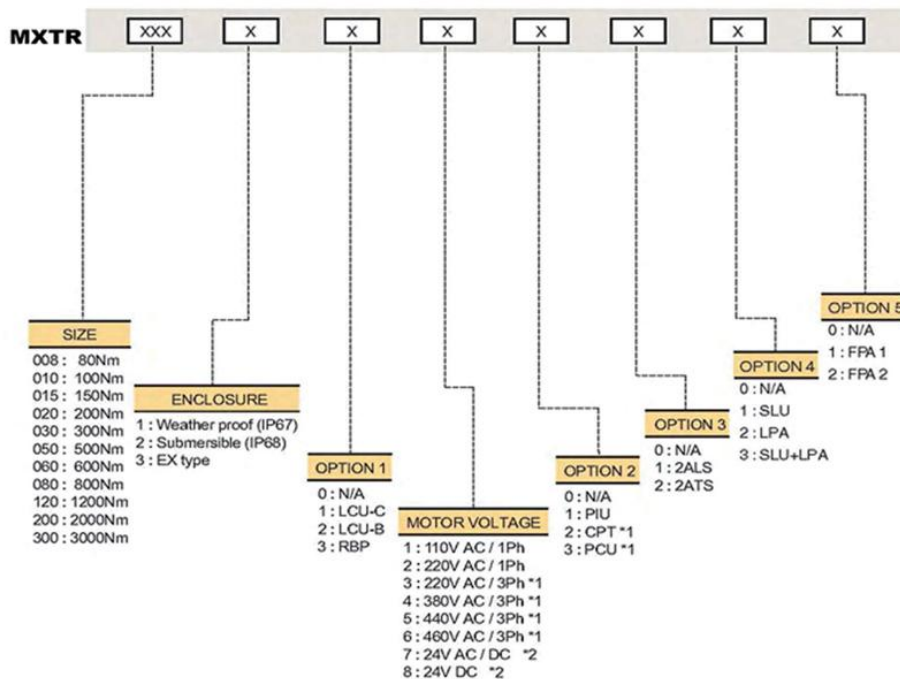




ACTUADOR ELÉCTRICO

MXTR

ELECTRIC ACTUATOR ORDER CODING SYSTEM (EXA: EEX D II B T4)



- Asterisk*1: MXTR-008 Through 010 actuators Shall not be Applied to the above condition
- Asterisk*2: MXTR-050 Through 300 actuators Shall not be Applied to the above condition
- 2ATS/2ALS Shall not be Available for MXTR-008 and for MXTR-015 Through 020 Actuators with PCU
- When LCU-B Option Applied, MXTR-015 Through 300 Actuators shall be Available on the Full Condition of Motor Voltages Except DC 24V.
- When LCU-C Option Applied, MXTR-015 through 300 actuators shall be available on the condition of 220v through 460V 3 phase of
- Voltages and shall not be available whith PIU/CPT
- Option RBP is Available only for MXTR-008 , MXTR-010,MXTR-015,MXTR-020 Y MXTR-030
- More Details Should be Advised to the Manufacturer.