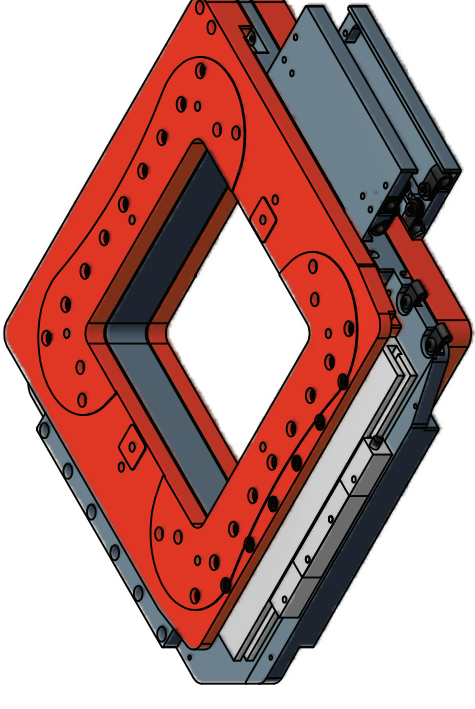




ALIO STAGE AND MOTOR SPECIFICATIONS

MODEL	UNITS	AI-CM-3000E-030-XY	AI-CM-5000E-050-XY	AI-CM-10000E-100-XY	AI-CM-15000E-150-XY	AI-CM-20000E-200-XY
TRAVEL	mm	30	50	100	150	200
MAX VELOCITY	m/s	0.2	0.3	0.4	0.4	0.5
MAX ACCELERATION	G	0.2	0.3	0.3	0.2	0.2
ASSEMBLY MASS	kg	1.9	3.2	5.6	7.4	11.4
X MOVING MASS	kg	1.5	2.5	4.4	5.7	8.7
Y MOVING MASS	kg	0.5	0.9	1.8	2.2	3.4
MOTOR INFORMATION						
MOTOR TYPE						
MOTOR MODEL						
MAGNETIC PITCH (N-N)						
MAX VOLTAGE (LINE TO LINE)[1]						
ELECTRICAL TIME CONSTANT						
MAX MOTOR TEMP						
DELTA CONNECTION [5]						
FORCE CONSTANT						
PHASE RESISTANCE (@25°C)[2]						
PHASE RESISTANCE (@130°C)[2]						
INDUCTANCE						
CONTINUOUS FORCE [3]						
CONTINUOUS CURRENT [3]						
PEAK FORCE [4]						
PEAK CURRENT [4]						
BACK EMF CONSTANT						
WYE CONNECTION [5]						
FORCE CONSTANT						
PHASE RESISTANCE (@25°C)[2]						
PHASE RESISTANCE (@130°C)[2]						
INDUCTANCE						
CONTINUOUS FORCE [3]						
CONTINUOUS CURRENT [3]						
PEAK FORCE [4]						
PEAK CURRENT [4]						
BACK EMF CONSTANT						



Notes:

1. Back EMF plus IR drop must not exceed maximum line to line voltage.
2. Resistance values do not include cable resistance. Cable resistance adds 0.251 ohm/m for Delta connection.
3. Continuous operating limits are based on continuous operation at maximum temperature with aluminum heat sink (300mm x 12.5mm x motor length).
4. Maximum on time at peak operating limits is 10 seconds.
5. Motor connection type is internal to motor. All stages provided with default Delta connection unless otherwise specified.
6. All specifications may vary by 12% from listed values.

DRAWN	5/12/2012
NBROWN	
CHECKED	
Tolerances: Surface Roughness: x.x ± .05 in [1.3 mm] x.xx ± .01 in [0.25 mm] x.xxx ± .005 in [0.13 mm] ✓ RMS MAX. Angles ± 0.5°	
MATERIAL	
FINISH	SEE NOTES

TITLE	
AI-CM-(TRAVEL)00E-(THRU)-XY	
SIZE	DWG NO
B	0010-08014
SCALE	ALIO STD TEMPLATE - REV 006
1	1
OF	1
REV	001

ALIO INDUSTRIES PROPRIETARY INFORMATION
(Tel) 303.339.7500 - SALES@ALIOINDUSTRIES.COM - WWW.ALIOINDUSTRIES.COM

