CONTR. FIRST ANGLE PROJECTION

UNIT: mm UNLESS OTHERWISE SPECIFIED

DECIMALS: TOLERANCES

ANGULAR:

MATERIAL

REV DWG NO.

ELMO MOTOR

SCALE OF SHEET

DESIGN DATE

P/N.

TITLE

CHECK APPD USED ON

DC BRUSHLESS MOTOR
L90-75020EBL

W 756 V 150 N 150 P 230 RPM 3000 Hz 50 60

MADE for Elmo by Kinco CHINA
SN: 3070112738Y32DDNNINN E505281

Performance Curve

T(nm)

8 7 6 5 4 3 2 1 0

7.83 7.17 6.3 5.7 5 4.3 2.3 0

Continuous Intermitent

n(rpm)

0 1000 2000 3000 4000 5000

ENVIROMENTAL CONDITIONS

Temperature: 
Humidity: 
Environment: 
Installation altitude: 
Mounting conditions: 
Rating conditions: 

ELECTRICAL DATA

Static friction: 3.2N.m
Voltage: 240VAC
Power: 11.5A

No. of poles: 6
DC Link Voltage Vm (DC Link): 300
Rated Power km: 750
Rated Torque Tm (Nm): 2.38
Rated Speed n (rpm): 2000
Rated Current Ia (A): 3.9
Maximum torque Tm (Nm): 7.17
Maximum Current Ia (A): 11.7
Standstill Torque T0 (Nm): 2.63
Standstill current I0 (A): 4.29
Resistance liner-fine R0 (Ω): 1.4
Inductance line-fine L0 (mH): 7.5
Electrical time constant t (ms): 5.35
Mechanical time constant τ (ms): 0.75
Voltage constant Kp/V (rpm): 40
Torque constant Kp (Nm/A): 0.682
Rotor moment of inertia J0 (kg.cm²): 1.386
Max. voltage rising du/dt(V/µs): 8
Insulation class: F
Max. radial force Fr(N): 335
Max. axial force Fa(N): 167.5
Weight (kg): 4

Feed back device: 2500cps/res-incremental encoder
TNO-4N115

Temperature sensor: n.a.
Cooling method: Totally enclosed non-ventilated

PROTECTION LEVEL: IP55 shaft sealing IP54

3070112733 Outside Drawing
ELMO MOTOR V2.0