

PKS-PRO-E-20 - Servo System



FEATURES

- **Input Voltage Range of 170-253 VAC**
- **Rated Torque of 1,352 to 2,704 oz-in**
- **2.0 kWatt Power Rating**
- **No Load Speed of up to 1,500 RPM**
- **2,500 PPR Incremental Encoder**
- **Enclosed and Self-Cooled**
- **Oil Seal and Optional Brake**
- **MODBUS and CANopen Standard**
- **RS485 Interface**
- **Real Time Monitoring and Management**
- **Position, Speed, and Torque Control**
- **CE Certified**



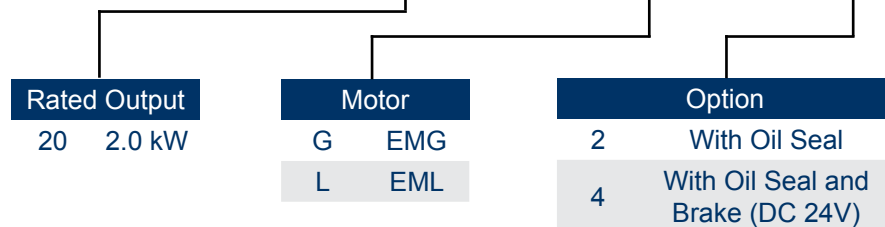
DESCRIPTION

The PKS-PRO-E-20 servo system includes a 2.0 kWatt EMG or EML AC Servo Motor operated by the PRONET-E drive. These packages are ideal for quick and easy start-ups, convenience and performance! The servo motor included in this package provides torque from 1,352 to 2,704 oz-in. The PRONET-E drives offer current forward-feedback control, acceleration forward-feedback control, speed viewer, and inertia viewer; providing for improved response performance. These drives operate standard with MODBUS and CANopen protocol. Each system includes a 5M power cable, 5M encoder cable, and a 3M communication cable.

System Specs	Rated Speed (RPM)	Rated Torque (oz-in)	Rated Current (A rms)	Inertia (oz-in-sec ²)	Torque Constant KT (oz-in/A)	Resistance (ohms)	Inductance (mH)	Driver Digital Display	Brake (24VDC)	Motor Length (mm)	Shaft Diameter (mm)
PKS-PRO-E-20-A-GP22	2000	1352	12.0	0.2691	130.1	0.3	3.7	Yes	No	210	22
PKS-PRO-E-20-A-GP24	2000	1352	12.0	0.2775	130.1	0.3	3.7	Yes	Yes	264.5	22
PKS-PRO-E-20-A-LP22	1000	2704	12.0	0.7576	236.9	0.56	4.7	Yes	No	253	35
PKS-PRO-E-20-A-LP24	1000	2704	12.0	0.8029	236.9	0.56	4.7	Yes	Yes	322	35

ORDERING INFORMATION

PKS-PRO - E - 20 - A - GP 2 2



L010958

Servo Motor Specifications

FEATURES

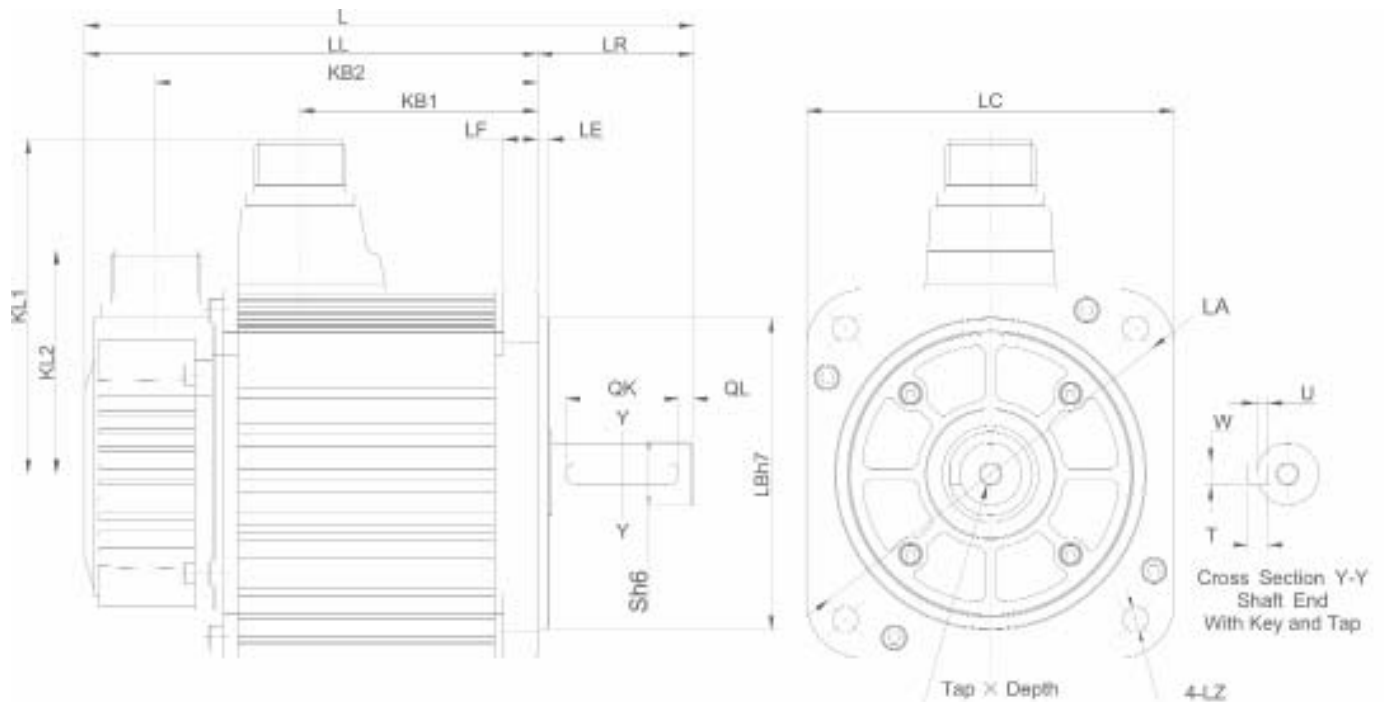
- **Rated Torque of 1,352 to 2,704 oz-in**
- **3-Phase, 200VAC**
- **Rated Power up to 2.0 kWatts**
- **Peak Torque up to 300% of Rated Torque**
- **Peak Current up to 300% of Rated Current**
- **No Load Speed of up to 1,500 RPM**
- **2,500 PPR Incremental Encoder Attached**
- **Enclosed and Self-Cooled**
- **Neodymium-Iron-Boron Magnets (NdFeB)**
- **CE Certified**



SPECS

Model #	Rated Torque (oz-in)	Rated Power (Watts)	Rated Speed (RPM)	Rated Current (A rms)	Brake (24VDC)	Inertia (oz-in-sec ²)	Electric Time Constant T _E (ms)	Back EMF Voltage K _E (V/krpm)	Torque Constant K _T (oz-in/A)	Resistance (ohms)	Weight (lbs)
EMG-20APA22	1352	2000	2000	12.0	No	0.2691	13.00	61.0	130.1	0.3	27.56
EMG-20APA24	1352	2000	2000	12.0	Yes	0.2775	13.00	61.0	130.1	0.3	27.56
EML-20APA22	2704	2000	1000	12.0	No	0.7576	15.36	109	236.9	0.56	55.12
EML-20APA24	2704	2000	1000	12.0	Yes	0.8029	15.36	109	236.9	0.56	55.12

DIMENSIONS



Note: All Dimensions in (mm)

MODEL #	L	LL	KB1	KB2	KL1	KL2	FLANGE SLIDE							S	TapxDepth	KEY				
							LR	LE	LF	LC	LA	LB	LZ			QK	QL	W	T	U
EMG-20APA22	265	210	134	185	118	79	55	4	12	130	145	110	9	22	M6x20L	40	5	8	7	4
EMG-20APA24	319.5	264.5	134	239.5	118	79	55	4	12	130	145	110	9	22	M6x20L	40	5	8	7	4
EML-20APA22	332	253	168	228	140	79	79	3.2	18	180	200	114.3	13.5	35	M8x16L	55	6	10	8	5
EML-20APA24	401	322	168	245	140	79	79	3.2	18	180	200	114.3	13.5	35	M8x16L	55	6	10	8	5

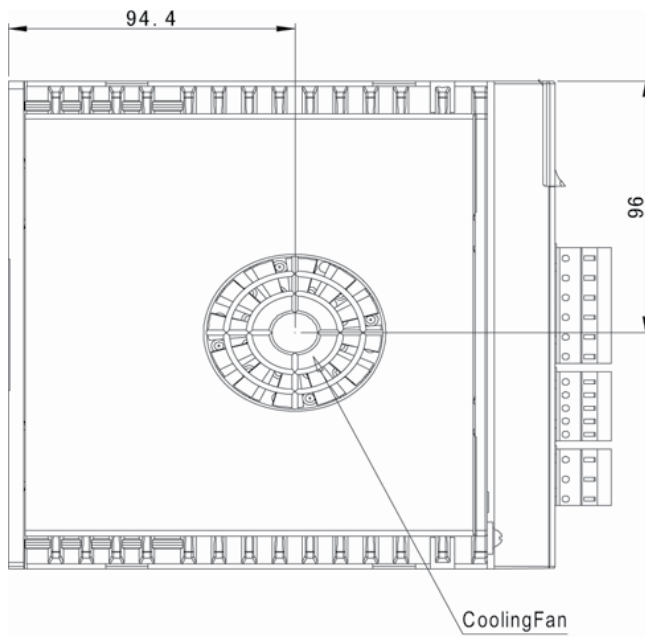
PRO-E-20 - Driver Specifications

FEATURES

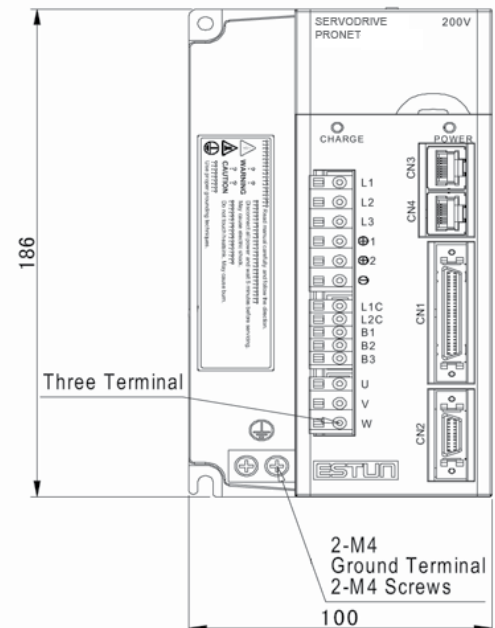
- Input Voltage Range of 170-253 VAC
- Rated Power up to 2.0 kWatts
- Improved Responsiveness Performance
- Enhanced Position Precision
- Low Speed Stability
- Enables Less Debugging
- MODBUS and CANopen Standard
- RS485 Interface
- Position, Speed, and Torque Control
- Homing Function



ProNet DIMENSIONS

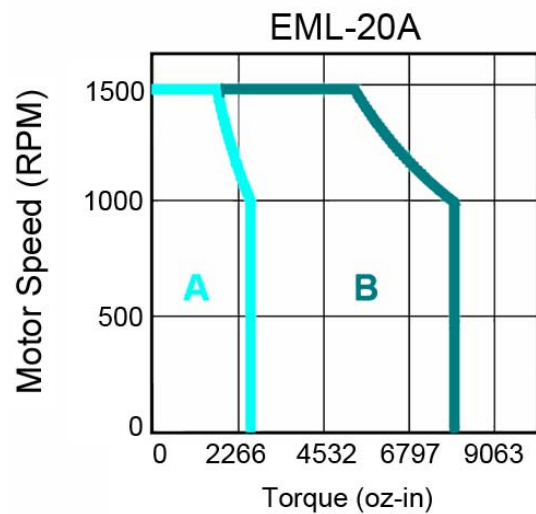
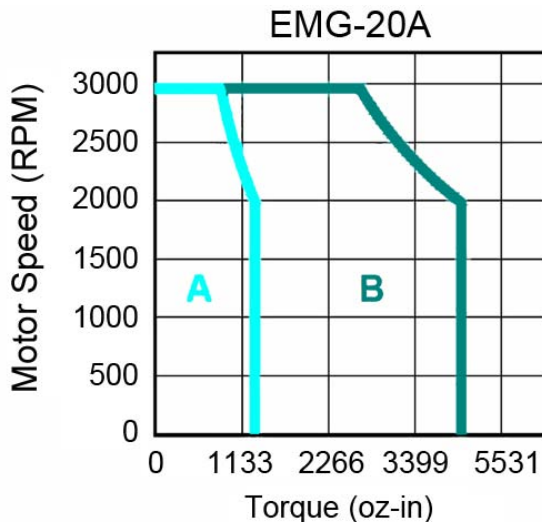


Dimensions are in millimeters (mm)

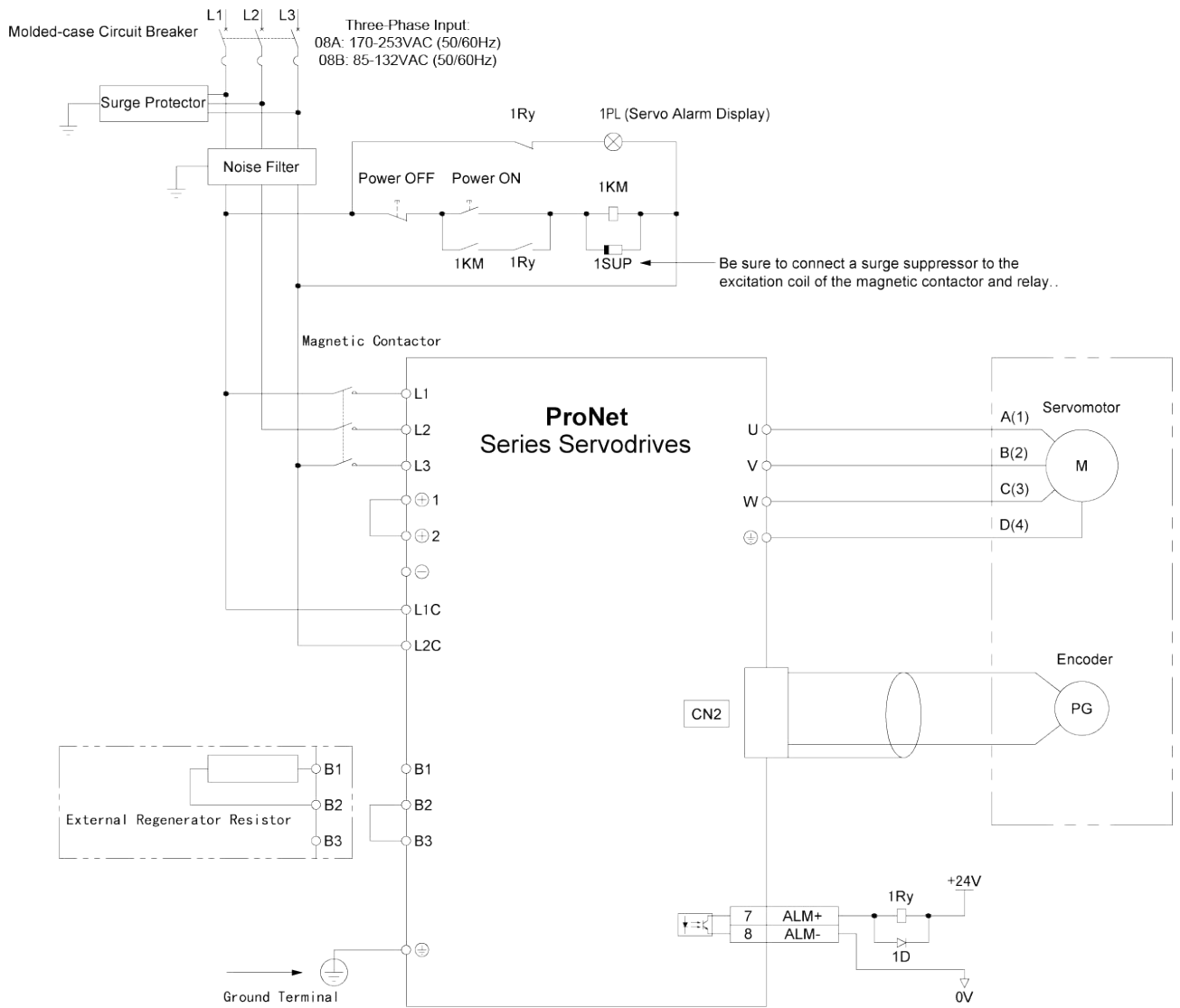


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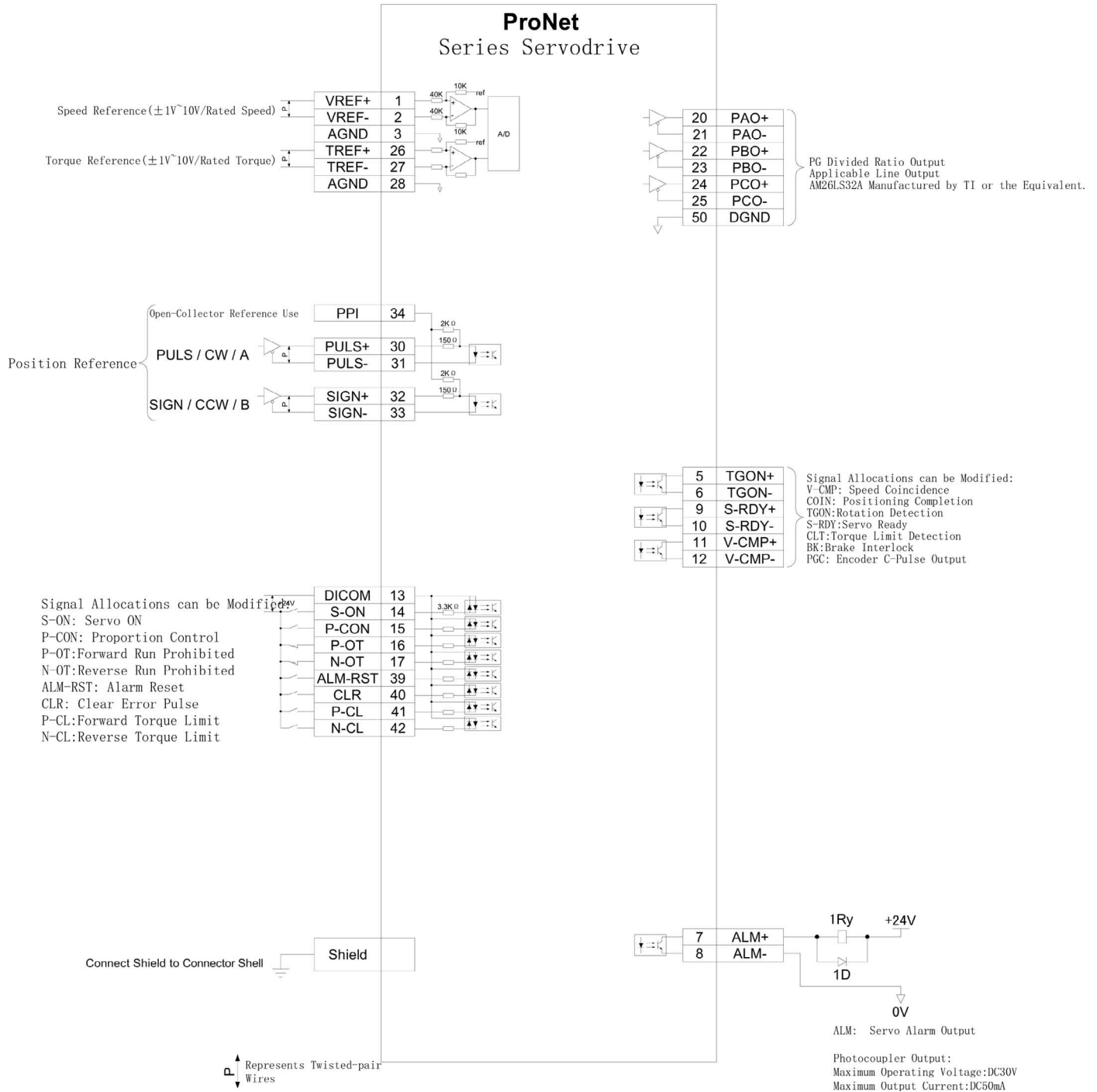
TORQUE CURVE



A - Continuous Working Area
B - Repeatedly Working Area



Note: The Surge Protector, Noise Filter, Magnetic Contactor, and the Regenerative Resistor are Optional.



Compatible Drivers

Part Number	Description
PRONET-E-20A	Servo Driver



Compatible Motors

Part Number	Description
EMG-20APA22	Servo Motor
EMG-20APA24	Servo Motor
EML-20APA22	Servo Motor
EML-20APA24	Servo Motor



Compatible Cables

Part Number	Description
PDM-GA14-05	Power Cable
BMP-GA24-05	Encoder Cable
PRONET-PSC-CC24-02	Comm. Cable

