



## TYPICAL MOTOR PERFORMANCE DATA

Model: MNET01002A2SBR

Serie: NEMA Elite

Issued Date	11/14/2022	Doc. #	390-R0
Issued By	LD	Issued Rev	0

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100.00	75.00	2	3560	405TS	230/460	60	3	224/112
Enclosure	IP	Ins. Class	S.F.	Duty	Nom. Eff.	Nema Design	kVA Code	Ambient Temp. (°C)
TEFC	55	F (*)	1.15	CONT	94.1	B	40 C	0

\* Inverter Duty

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100.00	75.00	112.0	94.6	88.0
¾ Load	75.00	55.90	86.0	93.9	86.6
½ Load	50.00	37.30	61.0	91.9	82.2
¼ Load	25.00	18.60	40.0	85.8	66.9
No Load			27.0		0.0
Locked Rotor			711.0		31.6

### Torque

Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Rotor Inertia (lb-ft²)
148.00	195.0	125.0	245.0	17.36

Safe Stall Time(s) Cold / Hot	Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
		DE	NDE	
15 / 6	85	6313C3	6313C3	0

\*Bearings are the only recommended spare part(s).

### Included Accessories:

All characteristics are average expected values.

Engineering		Doc. Written By		Doc.# / Rev	MNET01002A2SBR
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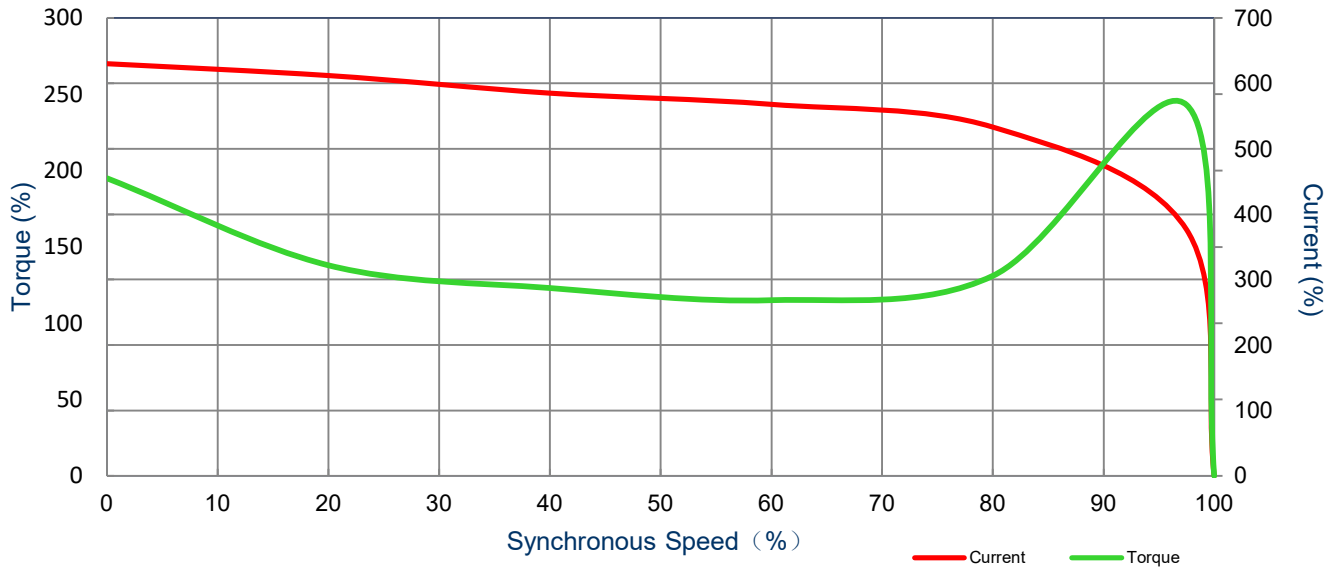
## SPEED TORQUE/CURRENT CURVE

Model: MNET01002A2SBR

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<b>Issued Date</b>	11/14/2022	<b>Doc. #</b>	390-R0
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<b>HP</b>	<b>kW</b>	<b>Pole</b>	<b>FL RPM</b>	<b>Frame</b>	<b>Voltage</b>	<b>Hz</b>	<b>Phase</b>	<b>FL Amps</b>
100.00	75.00	2	3560	405TS	230/460	60	3	224/112
<b>Enclosure</b>	<b>IP</b>	<b>Ins. Class</b>	<b>S.F.</b>	<b>Duty</b>	<b>Nom. Eff.</b>	<b>Nema Design</b>	<b>kVA Code</b>	<b>Ambient Temp. (°C)</b>
TEFC	55	F (*)	1.15	CONT	94.1	B	40 C	0
<b>Locked Rotor Amps</b>	<b>Rotor Inertia (lb-ft<sup>2</sup>)</b>	<b>Torque</b>				<b>Pull Up (%)</b>	<b>Break Down (%)</b>	
		<b>Full Load (lb-ft)</b>	<b>Locked Rotor (%)</b>					
711.0	17.36	148	195.0		125.0	245.0		



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HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75.00	55.00	2	2960	405TS	190/380	50	3	204/102
Enclosure	IP	Ins. Class	S.F.	Duty	Nom. Eff.	Nema Design	kVA Code	Ambient Temp. (°C)
TEFC	55	F (*)	1.2	CONT	94.3	B	40 C	0

\* Inverter Duty

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	75.00	55.00	102.0	94.5	87.8
¾ Load	56.25	41.90	79.0	93.6	86.1
½ Load	37.50	28.00	57.0	91.3	81.2
¼ Load	18.75	14.00	38.0	84.2	65.2
No Load			26.4		0
Locked Rotor			697.0		28.6

Torque				Rotor Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
133.00	180.0	135.0	280.0	17.36

Safe Stall Time(s) Cold / Hot	Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
		DE	NDE	
21 / 13	85	6313C3	6313C3	0

\*Bearings are the only recommended spare part(s).

**Included Accessories:**

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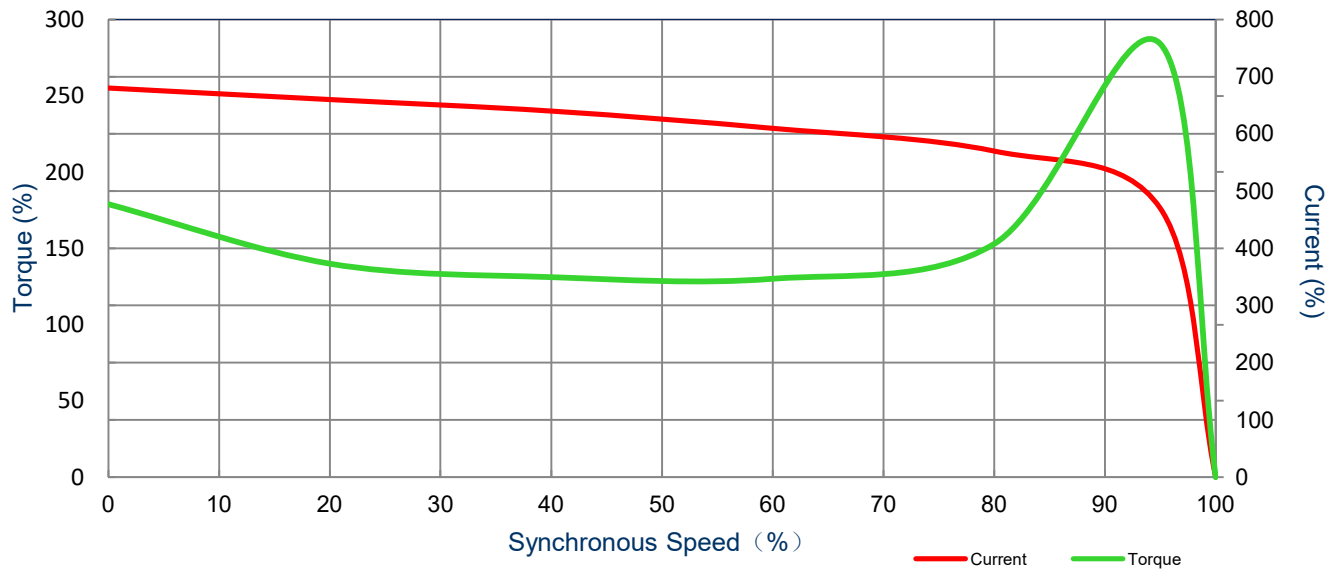
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HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75.00	55	2	2960	405TS	190/380	50	3	204/102
Enclosure	IP	Ins. Class	S.F.	Duty	Nom. Eff.	Nema Design	kVA Code	Ambient Temp. (°C)
TEFC	55	F (*)	1.2	CONT	94.3	B	40 C	0
Locked Rotor Amps	Rotor Inertia (Kg-m2)	Torque				Pull Up (%)	Break Down (%)	
		Full Load (lb-ft)	Locked Rotor (%)					
697.0	17.36	133	180.0		135.0	280.0		



All characteristics are average expected values.

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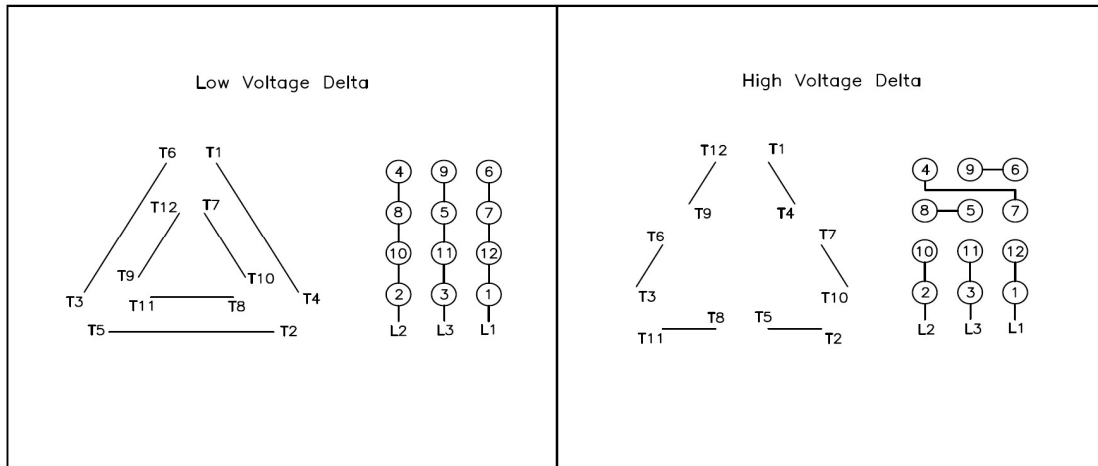
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## Motor Connection Diagram

Model: MNET01002A2SBR

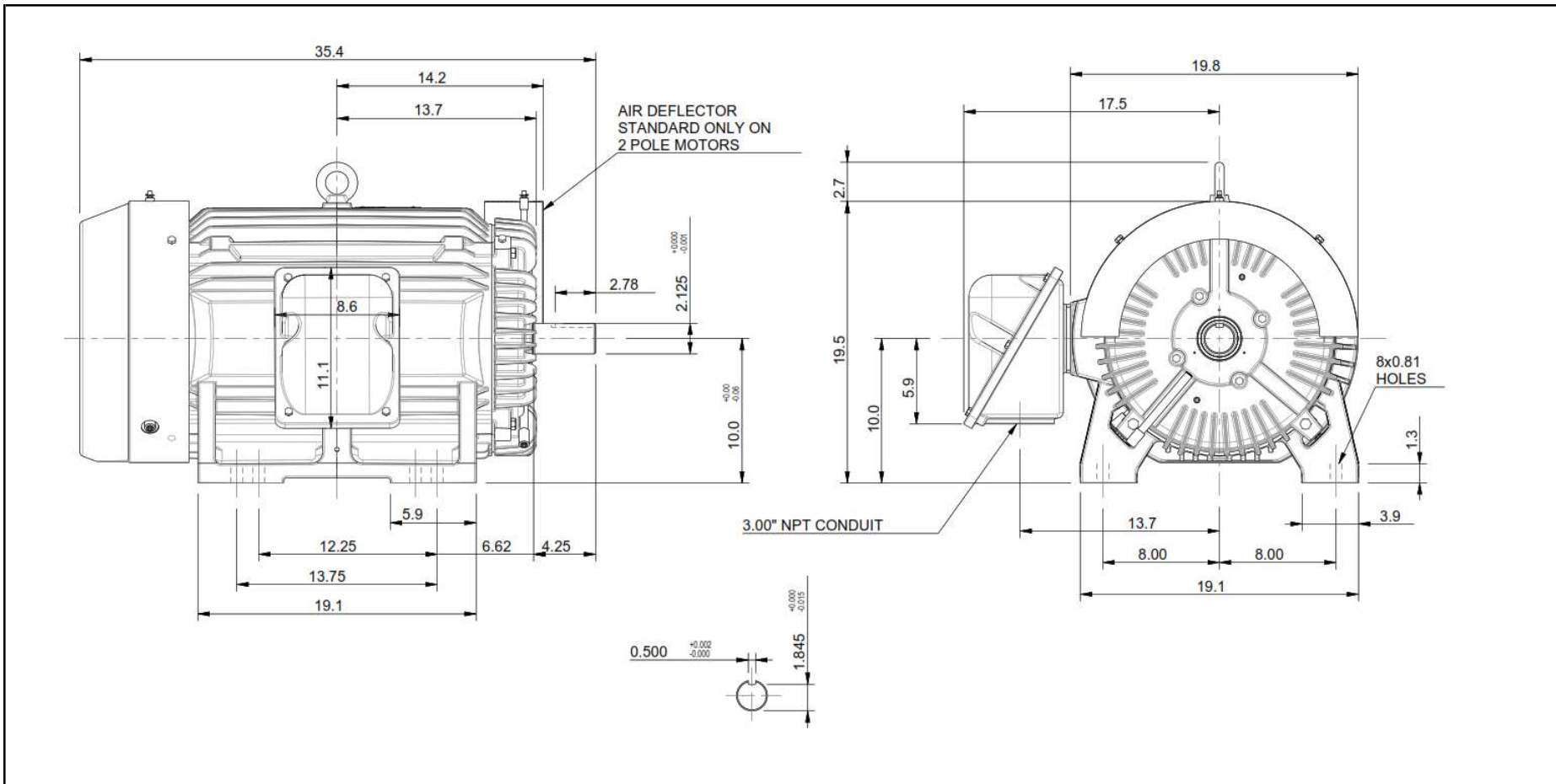
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## 12 Leads Connection Diagram



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ROTATION FROM NDE			1. MAIN CONDUIT BOX MAY BE ROTATED IN 90 DEGREE INCREMENTS			
CCW	CW		2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.			
 <b>X</b>						
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DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED			<b>X</b>	CERTIFIED		
		<b>TOTALLY ENCLOSED FAN COOLED          HORIZONTAL FOOT MOUNTED          3 PHASE INDUCTION MOTOR</b>	Drawing #: MNET01002A2SBR			
			Rev. Date:	11/14/2022	Rev. #:	0
			Standard:	NEMA	Mount.:	F1
			Frame	404TS - 405TS	Per.:	LD