

# ABB BALDOR RELIANCE III

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## Customer information packet

DRX36724T

75HP, 3555RPM, 3PH, 60HZ, 365TS, TEFC, F1

Class - CLI GP C,D

Division - Division I

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	365TS
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	CLI GP C,D
<b>Haz Area Division</b>	Division I
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	75.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	230.0 V @ 60 HZ 460.0 V @ 60 HZ
<b>Agency Approvals</b>	CCSAUSEEV CSA UL
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Constant Torque Speed Range</b>	6-60
<b>Current @ Voltage</b>	164.000 A @ 230.0 V 81.800 A @ 460.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	93.6 %
<b>Feedback Device</b>	NO FEEDBACK
<b>Haz Area Temp Code</b>	T3C
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	81.8 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready

**Part Detail**

<b>Revision</b>	-
<b>Type</b>	AC
<b>Mech. spec.</b>	
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	A36WG0026
<b>Layout</b>	611742-779
<b>Eff. date</b>	05-29-2019
<b>CD Diagram</b>	416820-002
<b>Poles</b>	02
<b>Leads</b>	3#2,6#4
<b>Proprietary</b>	False
<b>Created date</b>	04-30-2019

<b>IP Rating</b>	NONE
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Max Speed</b>	4200 rpm
<b>Motor Lead Quantity/Wire Size</b>	3 @ 2 AWG
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A36068M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	31.35 IN
<b>Power Factor</b>	92
<b>Product Family</b>	General Industrial
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3555 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat

**Nameplate**

<b>NP2496L</b>
MOBIL POLYREX EM

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**000692000FX**

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**000613006PC**

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<b>CLASS I GROUP</b>	C D X	<b>NO.</b>	
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<b>CLASS II GROUP</b>	X X X		
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<b>OPERATING TEMP CODE</b>	T3C		
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**NP3140L**

<b>SPEC NO.</b>	A36-5004-0026			<b>CAT.NO.</b>	DRX36724T				<b>FRAME</b>	365TS
<b>HP</b>	75	<b>VOLTS</b>	230/460		<b>PHASE</b>	3	<b>DESIGN</b>	B	<b>TYPE</b>	P
<b>RPM</b>	3555	<b>AMPS</b>	164/81.8		<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.00
<b>DRIVE END BEARING</b>	65BC03J30X		<b>DUTY</b>	CONT		<b>INSUL.CLASS</b>	F			
<b>OPP D.E. BEARING</b>	65BC03J30X		<b>ENCL</b>	TEFC		<b>CODE</b>	F			
<b>SF</b>	1.15	<b>WK2</b>	8.642	<b>MAG CUR</b>	31/15.5		<b>RPM MAX</b>	4200		
<b>CT HZ</b>	6-60	<b>VT HZ</b>	0-60	<b>CHP HZ</b>	60-70		<b>NEMA-NOM-EFF</b>	93.6		
	SUIT FOR 55C AMB AT 1.00 SF					IP55				
<b>SER.NO.</b>				<b>MOTOR WEIGHT</b>						

<b>CUSTOMER INFORMATION PACKET</b>	DRX36724T - 75HP	3555RPM, 3PH, 60HZ, 365TS, TEFC, F1			
<b>FRAME</b>	<b>HP</b>	<b>TYPE</b>	<b>PHASE/ HERTZ</b>	<b>RPM</b>	<b>VOLTS</b>
365TSC	75	P	3/60	3555	230/460

<b>AMPS</b>	<b>DUTY</b>	<b>AMB °C/ INSUL</b>	<b>S.F.</b>	<b>NEMA DESIGN</b>	<b>CODE LETTER</b>	<b>ENCLOSURE</b>
164/81.8	CONT	40/F	1.00	B	F	TEFC

<b>E/S</b>	<b>ROTOR</b>	<b>TEST S.O.</b>	<b>TEST DATE</b>	<b>STATOR RES. @25 °C OHMS (BETWEEN LINES)</b>
892019	418141005TE	---	---	.0186/.0744

**PERFORMANCE**


<b>LOAD</b>	<b>HP</b>	<b>AMPERES</b>	<b>RPM</b>	<b>% POWER FACTOR</b>	<b>% EFFICIENCY</b>
NO LOAD	0	15.5	3600	12.6	0
1/4	18.8	24.9	3589	78.9	89.3
2/4	37.5	41.4	3578	91.1	93.1
3/4	56.2	60.8	3567	92.3	93.9
4/4	75.0	81.8	3555	91.6	93.8
5/4	93.8	104	3542	90.9	93.3

**SPEED TORQUE**

	<b>RPM</b>	<b>TORQUE % FULL LOAD</b>	<b>TORQUE LB.-FT.</b>	<b>AMPERES</b>
<b>LOCKED ROTOR</b>	0	218	242	494
<b>PULL UP</b>	1565	188	209	440
<b>BREAKDOWN</b>	3395	226	250	259
<b>FULL LOAD</b>	3555	100	111	81.8

AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

TYPICAL DATA  
 XE MOTOR-NEMA NOM. EFF. 93.6 %  
 GUARANTEED MIN. EFF. 92.4%

	<b>DRAWN BY: C.E. JAMISON</b>	<b>AC MOTOR PERFORMANCE DATA</b>	<b>A36WG0026-R004</b>
	<b>CHECKED BY: W.L. SMITH</b>		
	<b>APPROVED BY: C.E. JAMISON</b>		<b>DATE ISSUED 06/23/26</b>
	<b>DATE: 08/17/17</b>		

FRAME 365TSC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 164/81.8

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

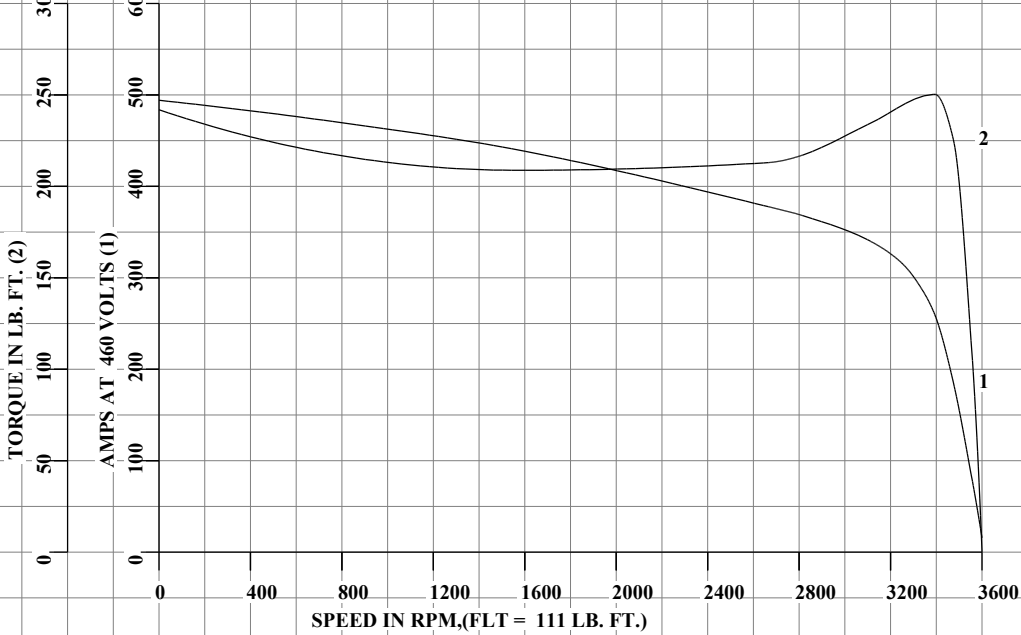
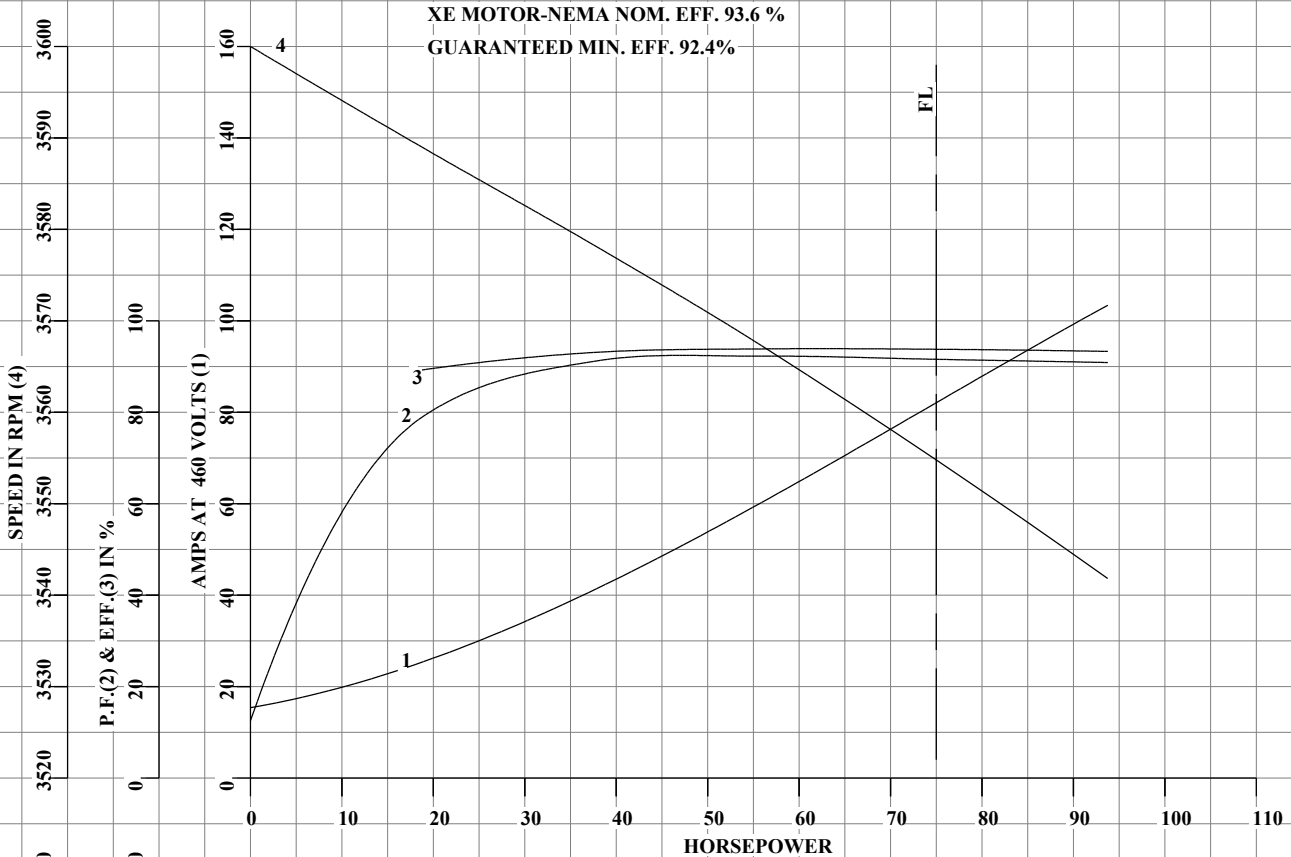
STATOR RES. @ 25°C .0186/.0744

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 892019

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: C.E. JAMISON  
 CHECKED BY: W.L. SMITH  
 APPROVED BY: C.E. JAMISON  
 DATE: 08/17/17

AC MOTOR  
PERFORMANCE  
DATA

**A36WG0026-R004**

ISSUE DATE 06/23/26

FRAME 365TSC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 164/81.8

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

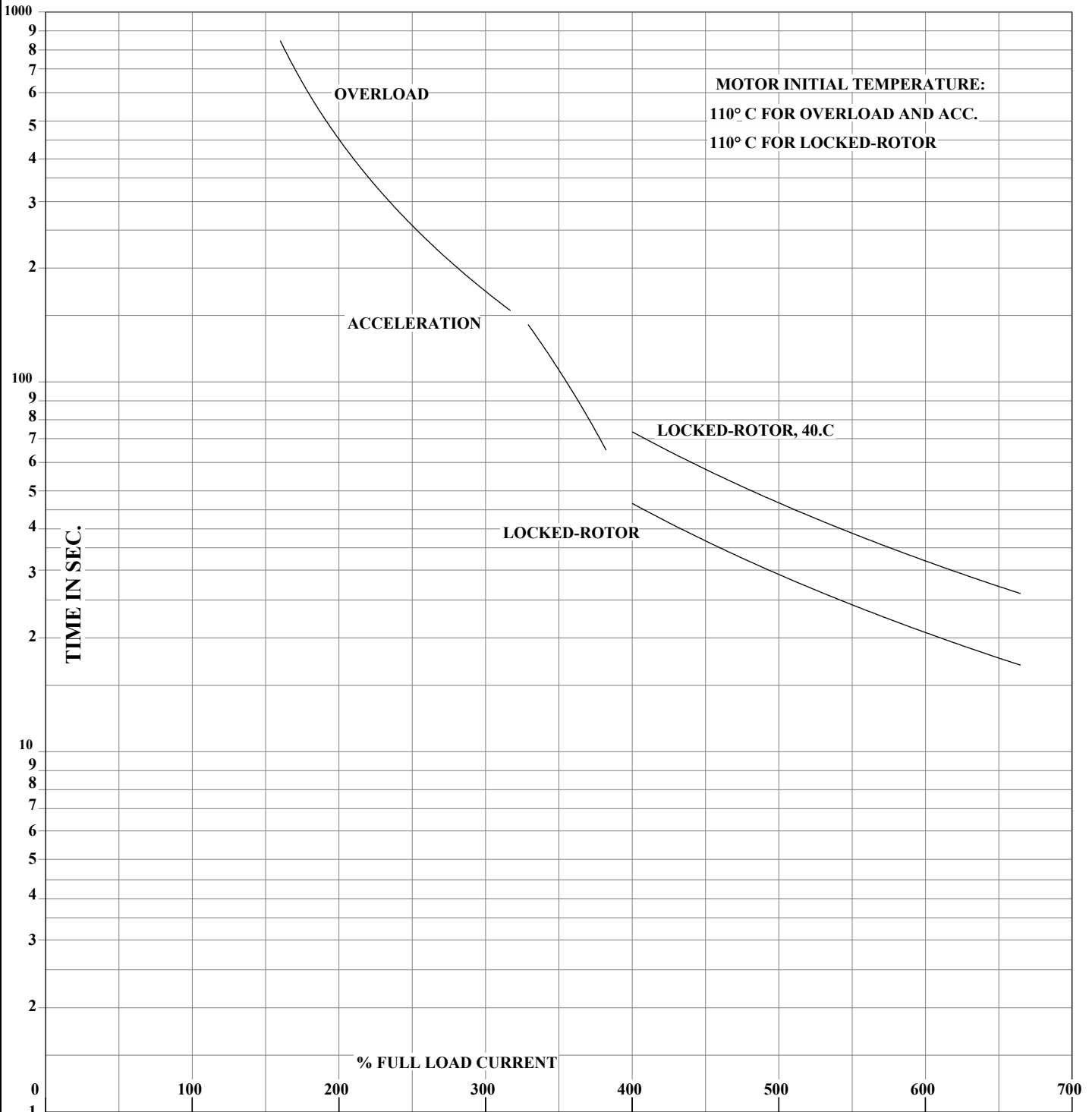
STATOR RES. @ 25°C .0186/.0744

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 892019

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE  
XE MOTOR-NEMA NOM. EFF. 93.6 %

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

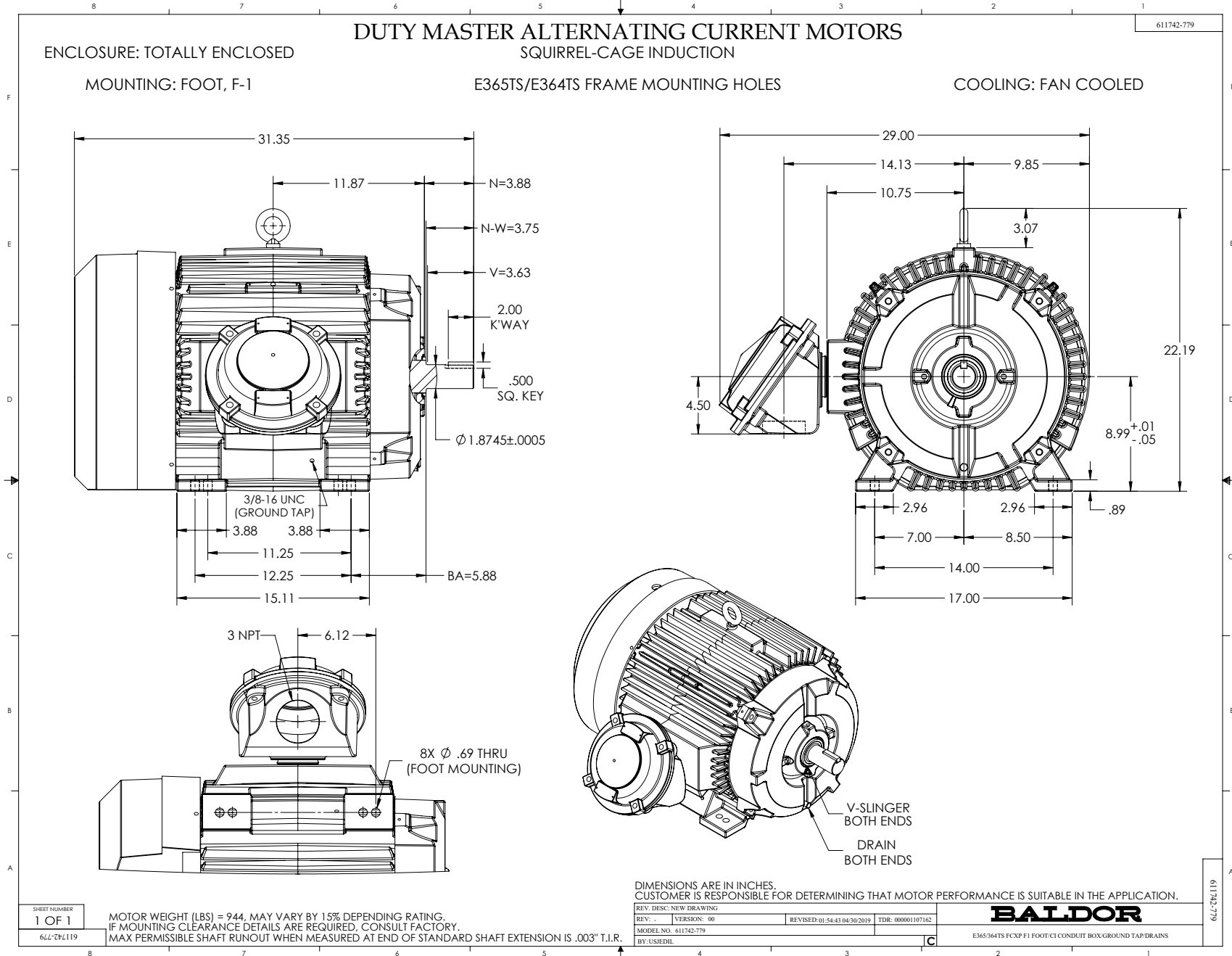


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 CHECKED BY: W.L. SMITH  
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 DATE: 08/17/17

AC MOTOR  
PERFORMANCE  
DATA

**A36WG0026-R004**

ISSUE DATE 06/23/26



# CONNECTION DIAGRAM ACCESSORIES

MOTOR WINDING THERMOSTATS	
CONTACTS _____ @ _____ °C	
FIGURE NUMBER _____	
CONTACT RATING	
VOLTS	CONTINUOUS AMPERES
110-120	3.0
220-240	1.5
440-480	0.75
550-600	0.60
	INRUSH AMPERES
	30
	15
	7.5
	6.0

NORMALLY CLOSED	THERMOSTATS	NORMALLY OPEN
 FIGURE 1		 FIGURE 4
 FIGURE 2		 FIGURE 5
 FIGURE 3		 FIGURE 6
 FIGURE 7		 FIGURE 8

CUSTOMER \_\_\_\_\_ CUSTOMER ORDER NO. \_\_\_\_\_ S.O. NO. \_\_\_\_\_

418174-006

418174-006

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

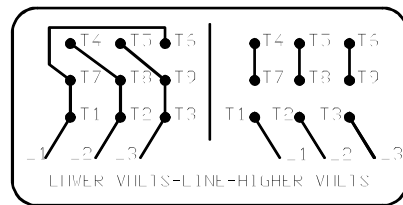
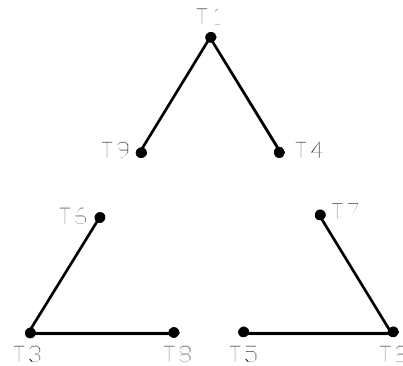
**BALDOR**

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

416820-002

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: -	© □	

**BALDOR - RELIANCE®**

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH 1 of 1

416820-002