

ABB BALDOR RELIANCE III

Customer information packet

IDVSM4314T

60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz 90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ 60.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 460.0 V @ 90 HZ 230.0 V @ 90 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1000:1
Current @ Voltage	71.200 A @ 460.0 V 69.100 A @ 460.0 V 142.000 A @ 230.0 V 138.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	69.1 a

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4074
Layout	617431-412
Eff. date	07-23-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.44 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm 2675 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV										
CAT NO	IDVSM4314T			SPEC NO.	P36G3221					
SER.NO.				FRAME	364T					
	HP	RPM	VOLTS	AMPS		HZ	TYPE	P		
BASE	60	1785	230/460	142/71		60	SF	1.00		
MAX	60	2675	230/460	136/68		90	INSUL.CLASS		F	
DRIVE END BEARING	65BC03J30X		CONSTANT TORQUE			DUTY	CONT		AMB	40
OPP D.E. BEARING	65BC03J30X		1000:1		ENCL	TEFC	PHASE	3		
DESIGN NO.	A36WG4074-R002		FLUX AMPS		54/27		VPWM INVERTER READY			
MAX SPEED/RPM	3600		OVERTEMP PROT		2	WK2	14.32	POLES		4 WEIGHT

BALDOR/460 RELIANCE		CUSTOMER INFORMATION PACKET		IDVSM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT, WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)	
HP	60	Base Volt	460	R1	0.052 X1 0.286
BASE SPEED	1784	NL AMPS	27.38	R2	0.306 X2 0.113
PHASE/HZ	3/60	Slip (HZ)	0.53	R2B	0.023 X2B 0.418
		WK ² (lb-ft ²)	14.300	R2E	0.007 XM 8.590

Rated Full Load Data						
	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1784	59.8	176.0	460	60	70.1
Max Speed	2675	60.1	118.0	460	90	66.8
CT Min Speed	1.784	0.060	176.0	0.46	0.06	70.1

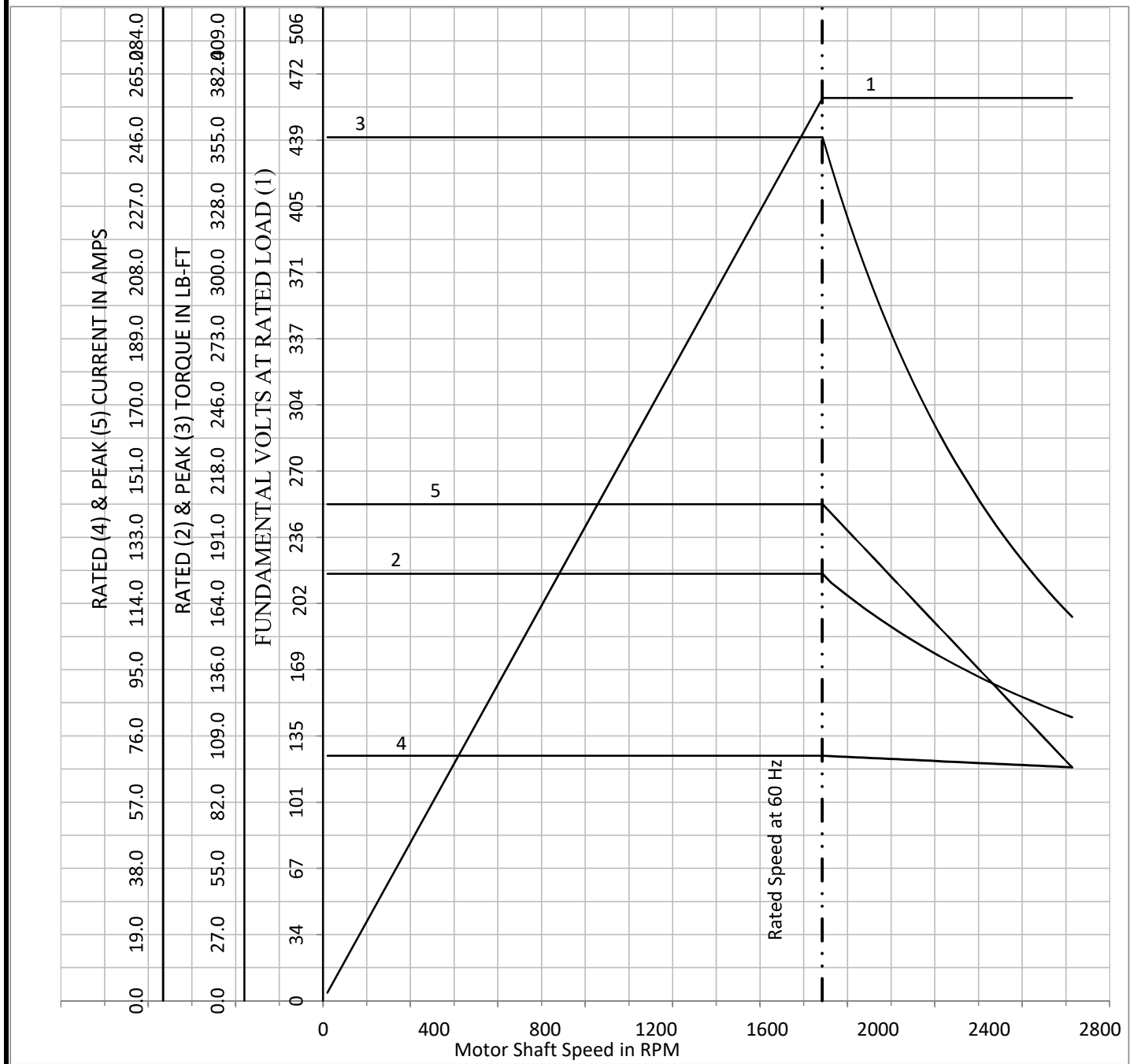
Load Performance at Base Speed						
	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	27.4
1/4	1796	15.0	43.7	460	60	32.0
1/2	1792	29.9	87.7	460	60	42.2
3/4	1788	45.0	132.0	460	60	55.4
Full Load	1784	59.8	176.0	460	60	70.1
O/L	1766	119.8	356.0	460	60	142.0

Remarks: Calculated Data						
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BALDOR • RELIANCE		DR BY <u>USBRRANI</u> CK BY <u>CD</u> APP BY <u>USBRRANI</u> DATE <u>8/17/2026</u>	A-C MOTOR PERFORMANCE CURVES Record: 77714
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BALDOR RELIANCE		60/460 112/71/136/68	CUSTOMER INFORMATION PACKET		IDVSM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT.	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	60		Base Volt	460		R1	0.052	X1	0.286
BASE SPEED	1784		NL AMPS	27.38		R2	0.306	X2	0.113
PHASE/HZ	3/60		Slip (HZ)	0.53		R2B	0.023	X2B	0.418
			WK ² (lb-ft ²)	14.300		R2E	0.007	XM	8.590

Variable Speed AC Motor Curves

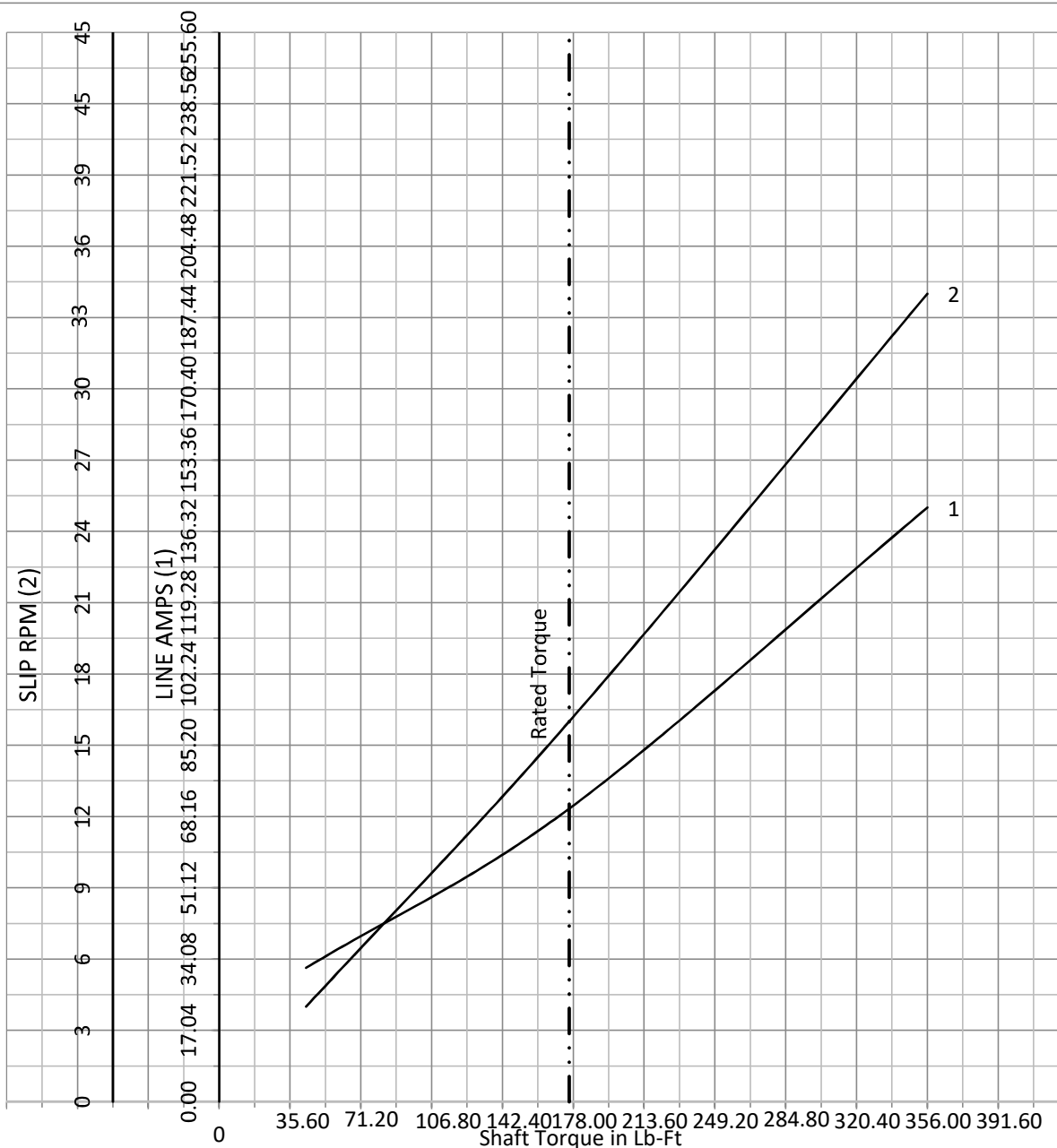


Calculated Data
Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE	DR BY <u>USBRRAN1</u>	A-C MOTOR PERFORMANCE CURVES	A36WG4074
	CK BY <u>CD</u>		
	APP BY <u>USBRRAN1</u>		
	DATE <u>8/17/2026</u>		Record: 77714

BALDOR-RELIANCE		CUSTOMER INFORMATION PACKET		IDVSM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT.		WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)	
HP	60	Base Volt	460	R1	0.052	X1	0.286
BASE SPEED	1784	NL AMPS	27.38	R2	0.306	X2	0.113
PHASE/HZ	3/60	Slip (HZ)	0.53	R2B	0.023	X2B	0.418
		WK2 (lb-ft2)	14.300	R2E	0.007	XM	8.590

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE

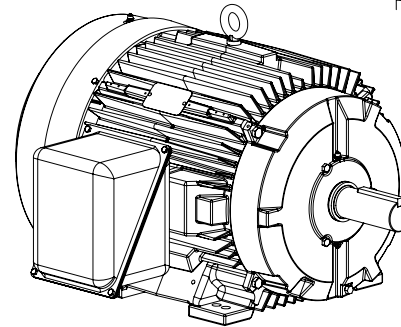
DR BY USBRRANI
CK BY CD
APP BY USBRRANI
DATE 8/17/2026

**A-C MOTOR
PERFORMANCE
CURVES**

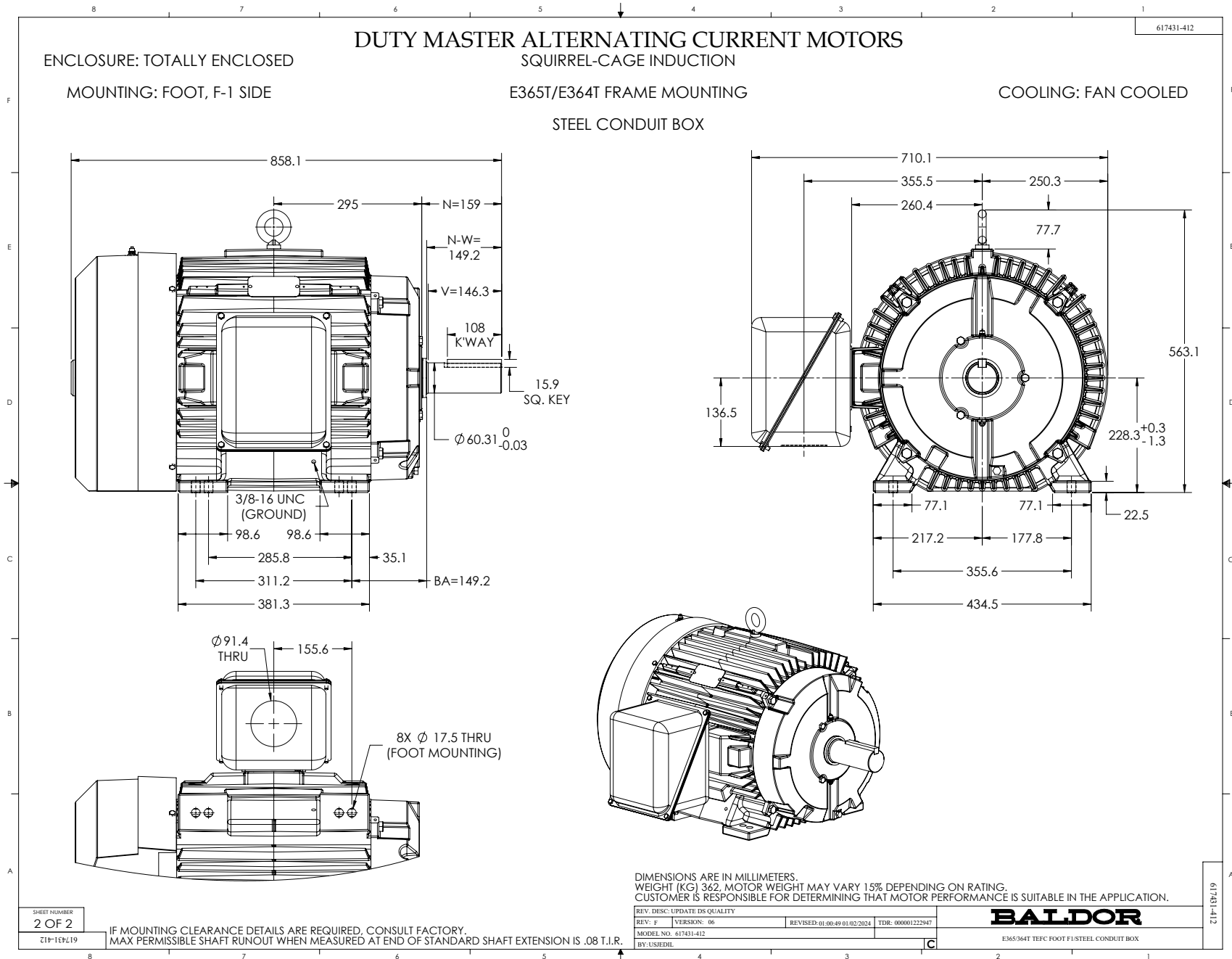
A36WG4074

Record: 77714

STEEL CONDUIT BOX

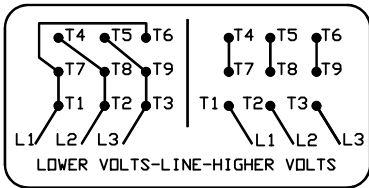
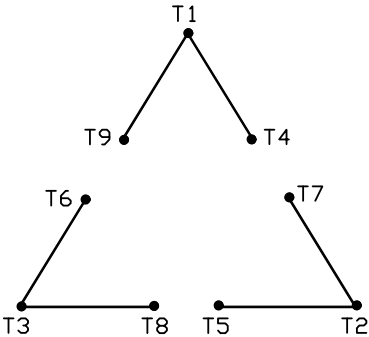


E365/364T TEFC FOOT FL/STEEL CONDUIT BOX



416820-002

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



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -	© □	



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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