

# PRODUCT INFORMATION PACKET



Model No: 170228.60  
Catalog No: 170228.60  
30 HP Special Voltage Motor, 3 phase, 3600 RPM, 575 V, 286TS Frame, TEFC  
Special Voltage Motors



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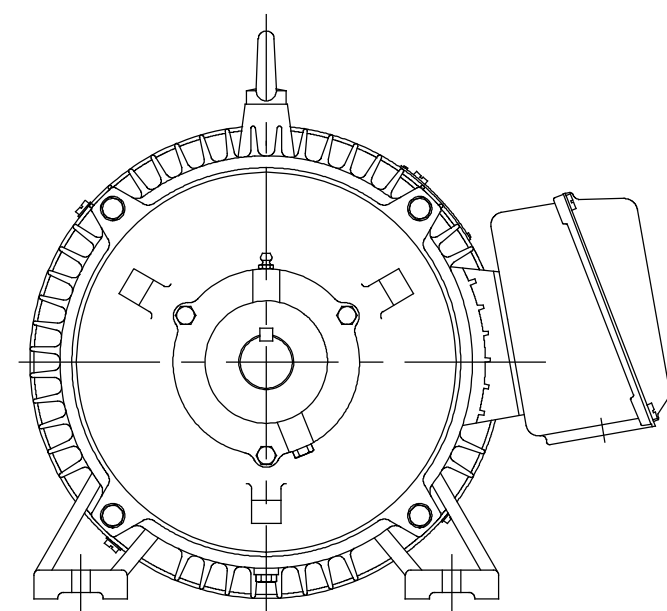
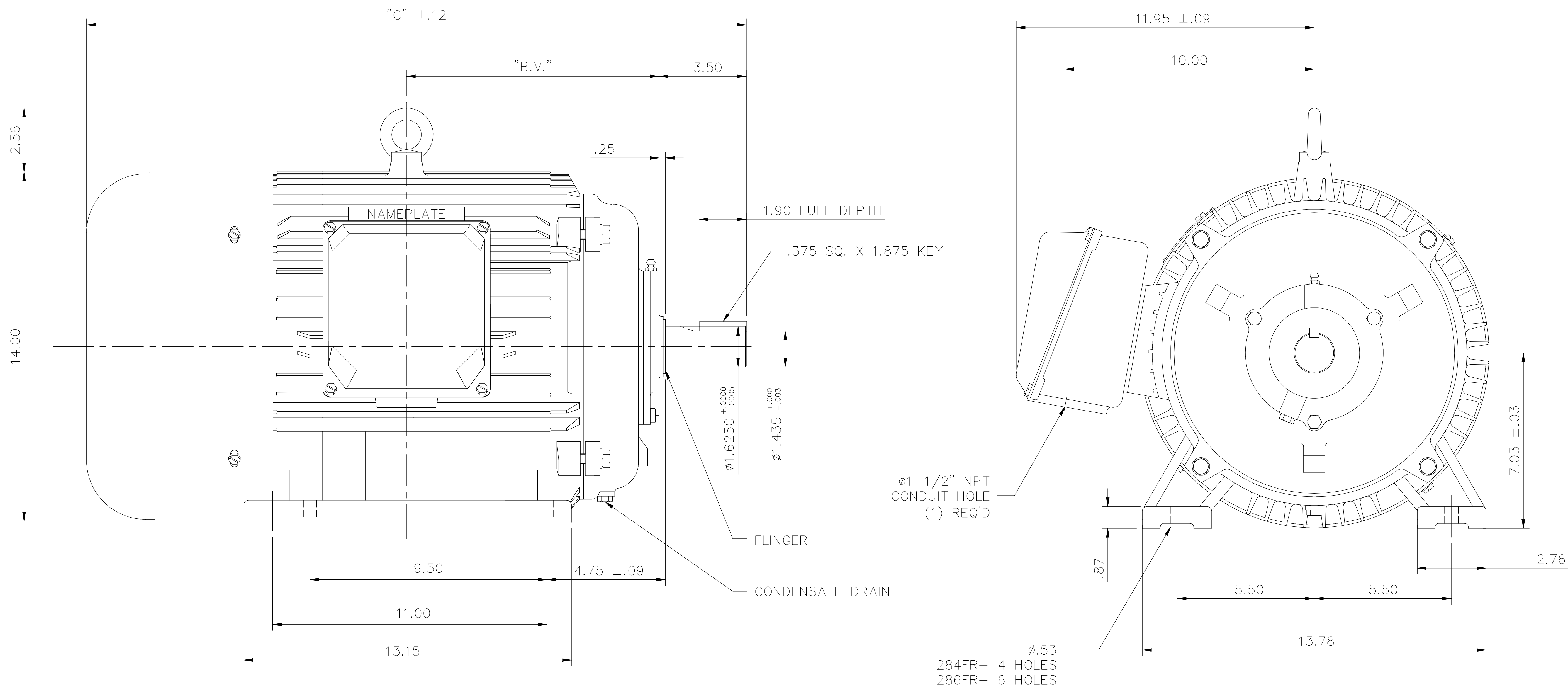
### Nameplate Specifications

Output HP	<b>30 Hp</b>	Output KW	<b>22.4 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>27.0 A</b>	Speed	<b>3550 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>93 %</b>	Power Factor	<b>89.3</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>286TS</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6311</b>	Opp Drive End Bearing Size	<b>6309</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Wye Start Delta Run Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>0 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>TS</b>	Overall Length	<b>24.88 in</b>
Shaft Diameter	<b>1.625 in</b>	Shaft Extension	<b>3.25 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>		
Outline Drawing	<b>16954060-286TS</b>	Connection Drawing	<b>005190.01</b>

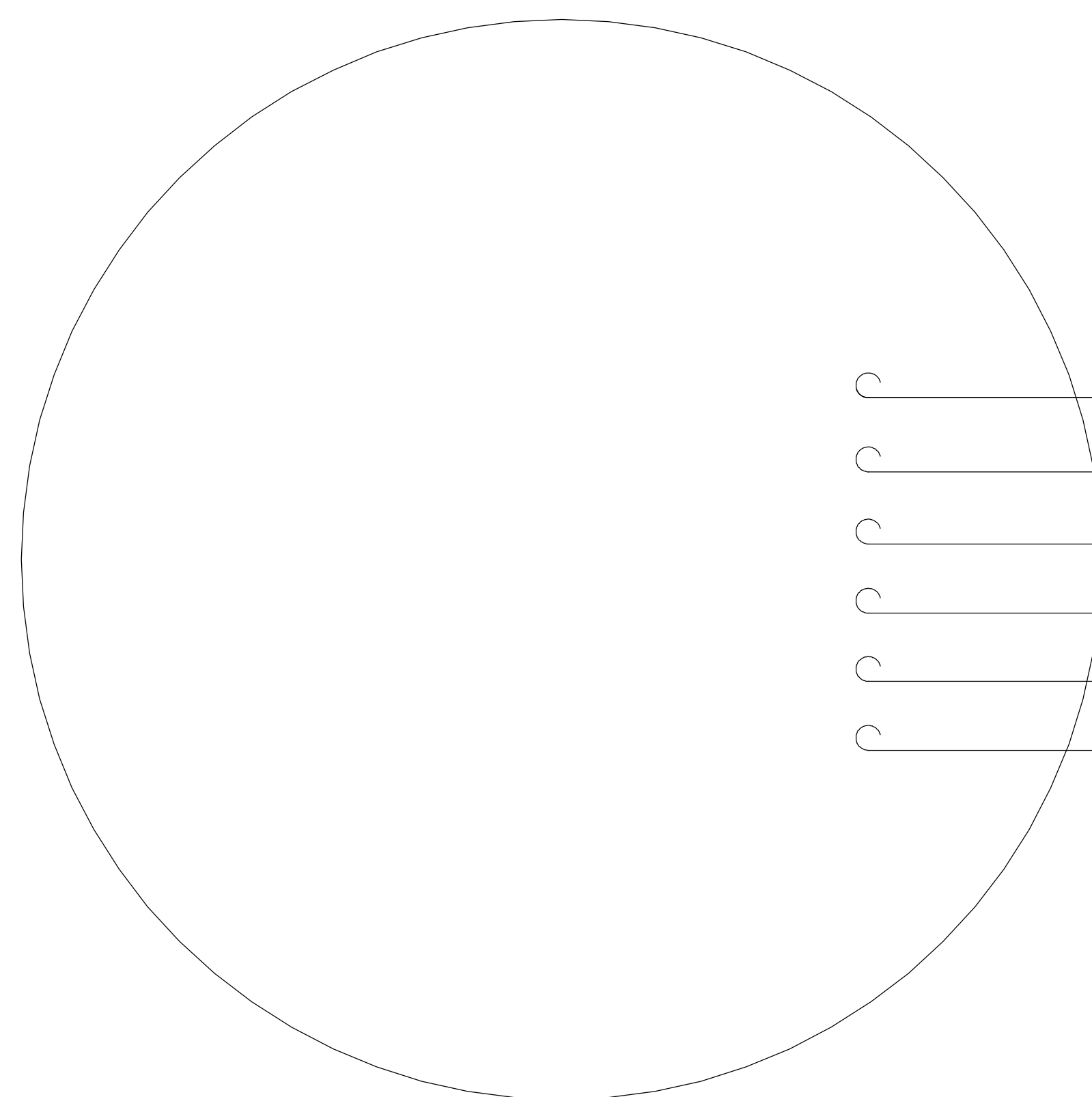
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FRAME DESIGN	"C"	"BV"
284TS	24.88	4.72
286TS	26.46	3.97

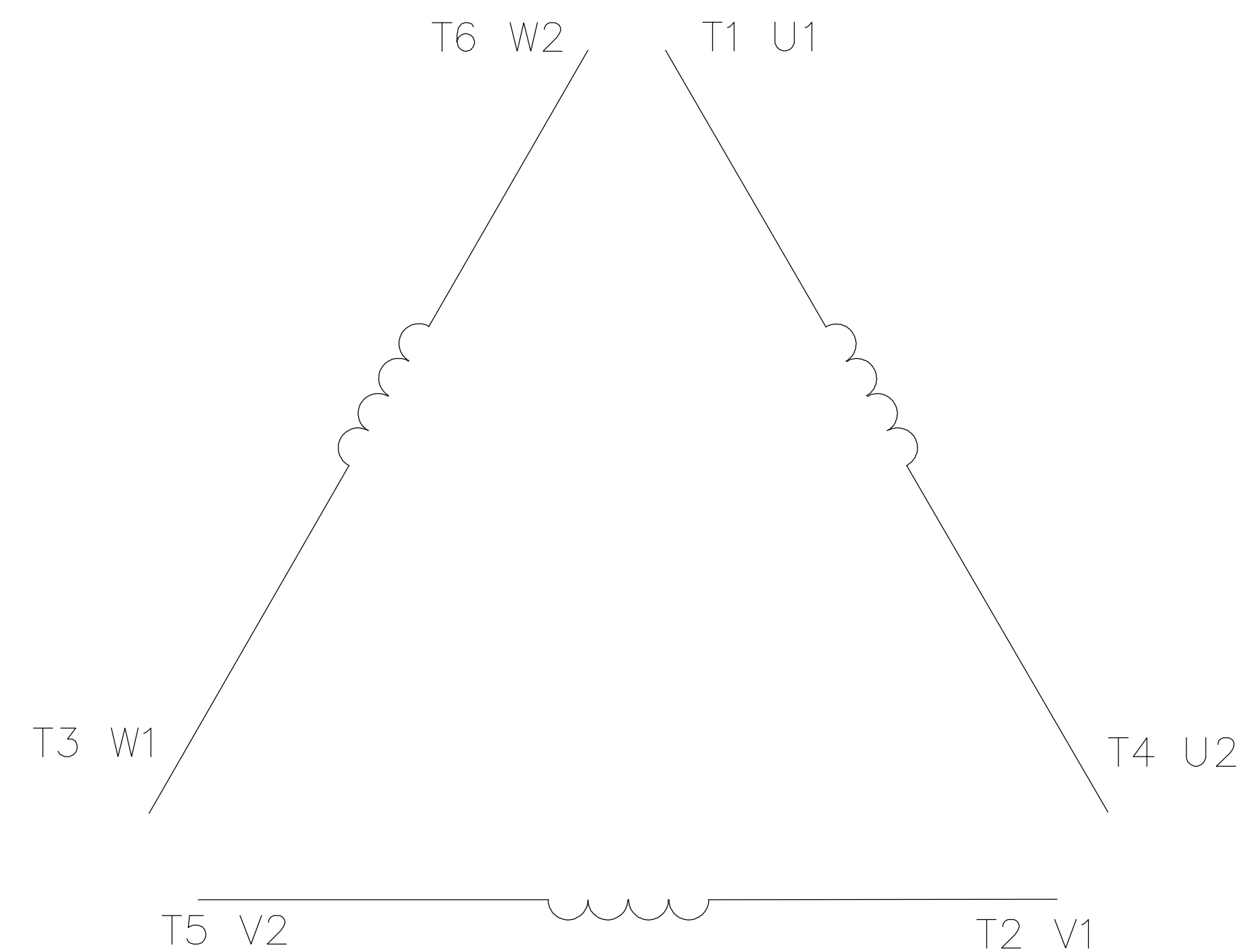
NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION	DRAWN JJK 03/29/99		
				DEC.	INCHES				
H	ADDED F2 VIEW ECO-0134445	WGJ 11/10/2017	EMH	.X	±.1	 <b>REGAL-BELOIT CORPORATION</b> TITLE OUTLINE-280TS FRAME, TEFC-RIGID NEW CONDUIT BOX MAT'L. CAST IRON FINISH	CHK		
03	REMOVED REFERENCE TO 250 FRAME	MOL 08/15/2012		.XX	±.03		APPD PG 03/31/99		
02	REDRAWN TO CURRENT CAD STANDARDS	CJK 11/1/01		.XXX	±.005		SCALE 1=4		
01	ADDED HOLES 286TS BASE	JJK 07/13/99		.XXXX	±.0005		REF		
				ANG	±7'30"		FMF		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE 16954060	SIZE B	DRAWING NO. 169540-60	PAGE OF	REV. H
				DIST					

005190-01



- T1 U1
- T2 V1
- T3 W1
- T4 U2
- T5 V2
- T6 W2

LINE LEADS



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

				TOLERANCES UNLESS OTHERWISE SPECIFIED		<b>LEESON</b> ELECTRIC CORPORATION			
				DECIMALS					
04	ADDED MAT'L (CWLE) PER ECO-0168542	DS	6/10/2019			DRAWN PG 05/07/82	TITLE EXT. WIRING DIAGRAM STAR START - DELTA RUN		
03	ADDED IEC DESIGNATIONS	MOL	4/27/2012	.00	± .01	CH'K'D. TEM			
02	REMOVED OBSOLETE STATUS	KJH	6/28/99	.000	± .005	APPR. 05/07/82	MAT'L. Y-CONNECTED START (CWLE) DELTA CONNECTED RUN - SINGLE VOLTAGE		
01	REDRAWN ON CAD	DBT	05/30/97	.0000	± .0005	SCALE 1=1			
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	REF. T2E	FINISH	SIZE A	DRAWING NO. 005190-01
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED				ANGLES	± 1/2'	FMF	ELECTRO POWER		
				INCH/MM					

Data Sheet

Date: 1/31/2018

170228.60



Data @ 575 V

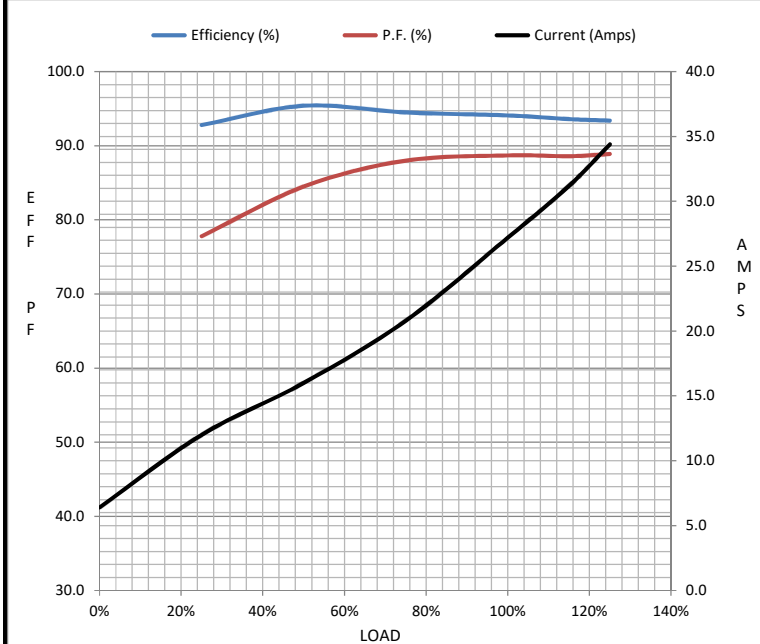
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	6.4	12.0	16.0	20.8	27.2	31.2	34.4	174
Torque (ft-lb)	0.00	17.0	25.5	34.0	44.5	54.0	56.5	90.6
RPM	3600	3588	3577	3565	3555	3,545	3535	0
Efficiency (%)		92.8	95.4	94.5	94.1	93.6	93.4	
P.F. (%)	8.2	77.8	84.5	88.0	88.7	88.6	88.9	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1200	3350	3555	3600
Current (Amps)	174	172	116	27.2	6.4
Torque (ft-lb)	90.6	68.0	118	44.5	0.00

Information Block				
HP	30.0			
Sync. RPM	3600			
Frame	286			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	2.05 Lb-Ft <sup>2</sup>			
Ref Wdg	T14502017 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	16954060			
Conn. Diag	005190.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

