

Sl. No.	Item Description	Unit	Data / parameter
10.0	Condenser Tube Ball Transfer Pump Motor		T92
10.1	Make		ABB
10.2	Type		Squirrel cage induction, TEFC
10.3	Applicable Standard		IEC
10.4	Quantity for 2 Units	Nos.	4
10.5	Duty		S1, Continuous
10.6	Design Ambient Temperature	° C	50
10.7	Degree of Protection		IP 55
10.8	Rated Power	kW	3.7
10.9	Nominal Current	Amps	9.4
10.10	Synchronous Speed	RPM	960
10.11	Frame Size		132S
10.12	Rated Voltage / frequency		380V AC, 50Hz, 3 Ph
10.13	Voltage variation		± 10%
10.14	Frequency variation		± 5%
10.15	Combined Voltage / Frequency variation		10% absolute
10.16	Class of insulation		F (Temperature rise limited to class B)
10.17	Type of Starting		Direct - on - line ( DOL )
10.18	Drive Transmission		Flexible Coupling
10.19	Efficiency	%	84.3 (IE2)
10.20	Power Factor	%	0.71
10.21	KKS No.		50PAH11AP020-M01, 50PAH12AP020-M01

NOTE : KKS No. Shall be changed from "50" to "60" for UNIT 6 .


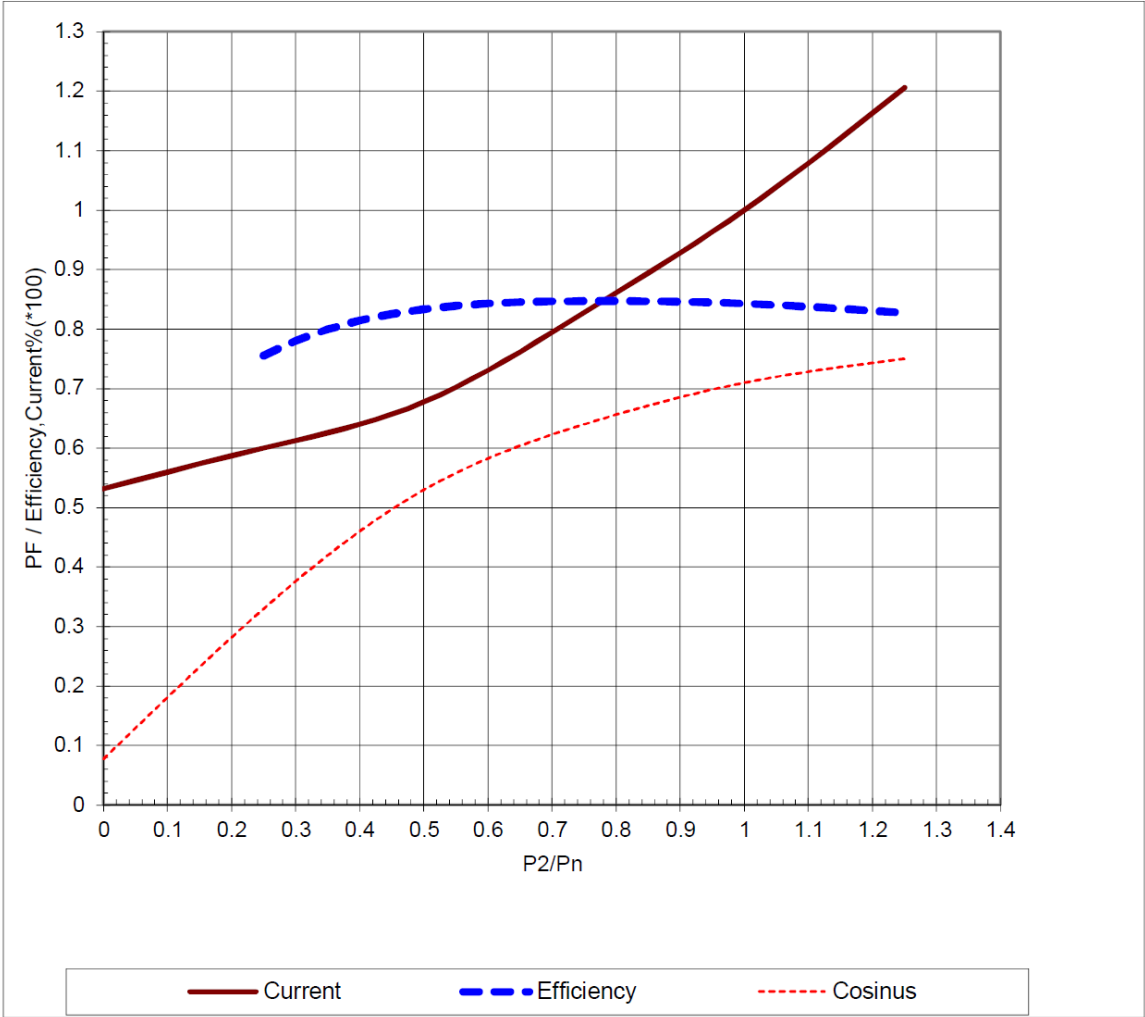
ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed by A	Date of issue 5/11/2018	Saving ident untitled.xls Pages 2(3)
Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
Type/Frame	<b>M2BAX 132SB 6</b>	Calc. ref.	<b>3GZH021013-19</b>
Product code	<b>3GBA 133 120-ADCIN</b>		
Rated output P <sub>N</sub>	<b>3.7 kW</b>		
Type of duty	<b>S1 100%</b>		
Voltage (V)	<b>380</b>	Current I <sub>N</sub> (A)	<b>9.4</b> Power factor at P <sub>N</sub> <b>0.71</b>
Frequency (Hz)	<b>50</b>	Speed (r/min)	<b>960</b> Efficiency (%) at P <sub>N</sub> <b>84.3</b>
			
<p>Data based on situation 8/8/2016</p> <p>All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004</p>			


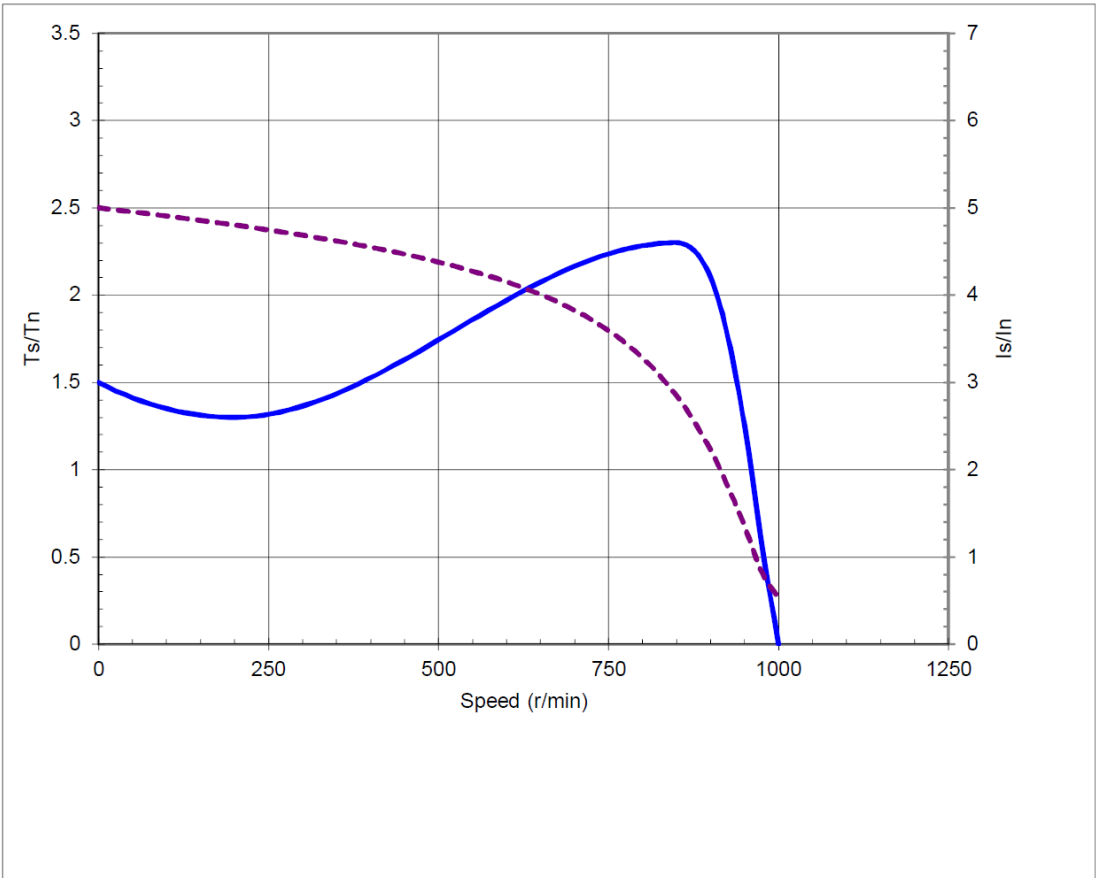

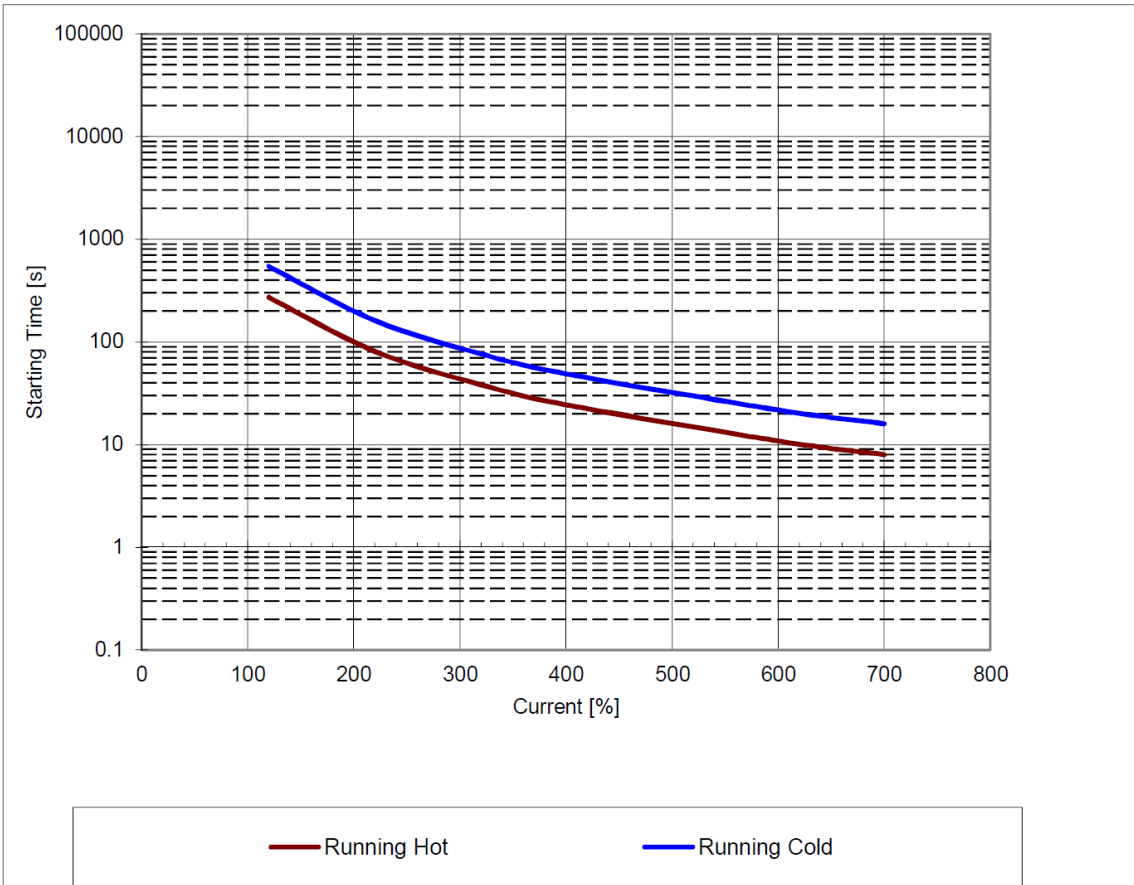
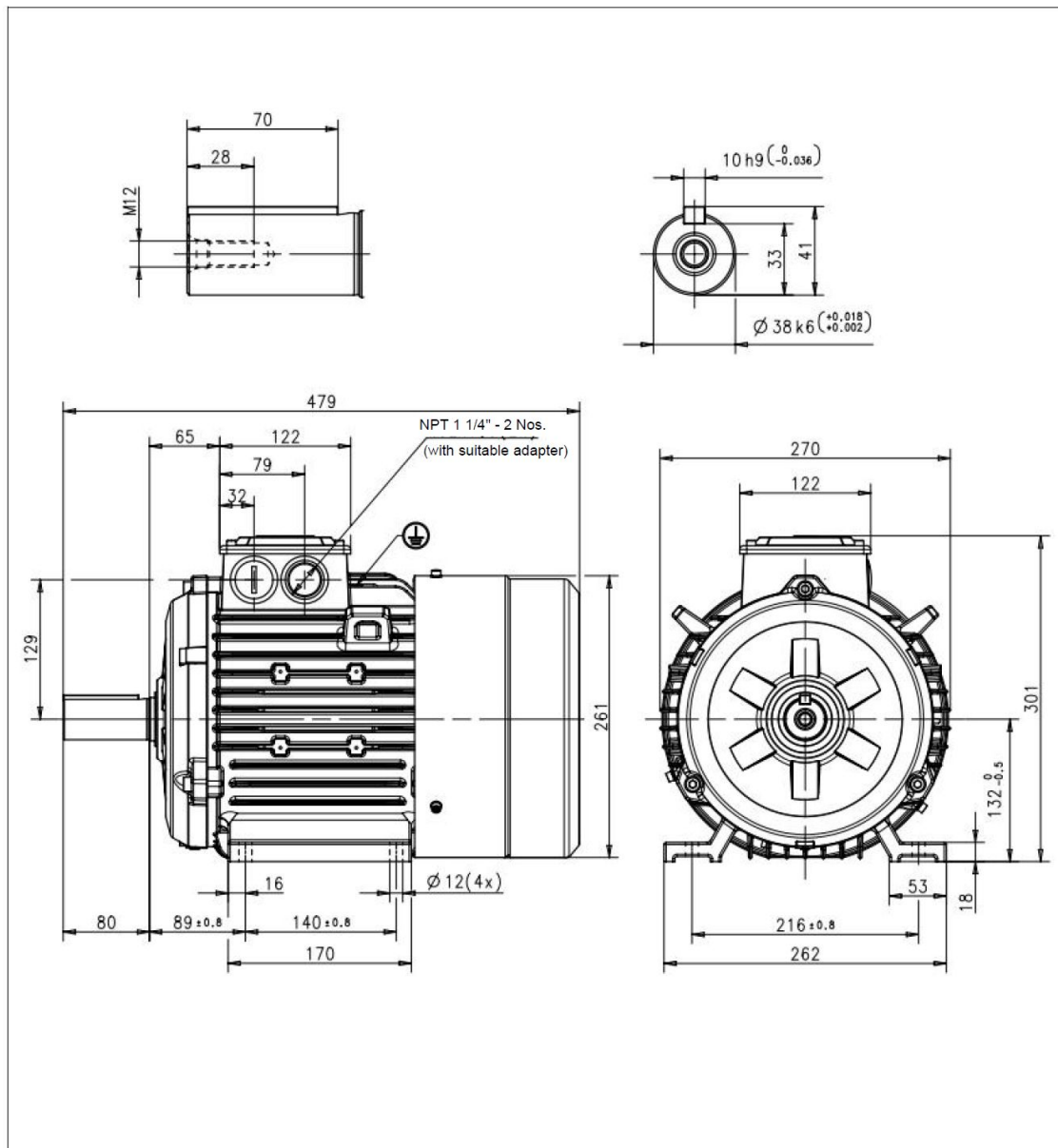
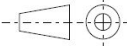
ABB Motors and Generators	Starting Curves			
	Project	Location		
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed t Date of issue <b>A</b> <b>5/11/2018</b>	Saving ident <b>untitled.xls</b>	Pages <b>3(3)</b>	
Type of product	<b>TEFC, 3-phase, squirrel cage induction motor</b>			
Type/Frame	<b>M2BAX 132SB 6</b>	Calc. ref.	3GZH021013-19	
Product code	<b>3GBA 133 120-ADCIN</b>	Frequency (Hz)	<b>50</b>	
Rated output P <sub>N</sub>	<b>3.7 kW</b>	Rated current I <sub>N</sub>	<b>9.4</b>	A
Type of duty	<b>S1 100%</b>			
J <sub>motor</sub> (kgm <sup>2</sup> )	<b>0.028</b>	Voltage (V) 100%	<b>380</b>	Voltage (V) <b>304V(80%)</b>
J <sub>load</sub> (kgm <sup>2</sup> )		T <sub>start</sub> /T <sub>N</sub>	<b>1.5</b>	T <sub>start</sub> /T <sub>N</sub> <b>0.9</b>
Speed (r/min)	<b>960</b>	Starting time (s)		Starting time (s)
T <sub>N</sub> (Nm)	<b>37</b>	Speed (r/min)		Speed (r/min) <b>1457</b>
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>N</sub>	<b>5</b>	I <sub>s</sub> /I <sub>N</sub> <b>3.7</b>
		T <sub>max</sub> /T <sub>N</sub>	<b>2.3</b>	T <sub>max</sub> /T <sub>N</sub> <b>1.4</b>
				
Data based on situation 8/8/2016				
All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004				

ABB Motors and Generators	Thermal Withstand Curve			
	Project	Location		
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages 5(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 132SB 6	Calc. ref.	3GZH021013-19	
Product code	3GBA 133 120-ADCIN	Frequency (Hz)	50	
Rated output P <sub>N</sub>	3.7 kW	Rated current I <sub>N</sub>	9.4	A
Type of duty	S1 100%			
J <sub>motor</sub> (kgm <sup>2</sup> )	0.0283	Voltage (V) 100%	380	Voltage (V) 304V(80%)
J <sub>load</sub> (kgm <sup>2</sup> )		T <sub>start</sub> /T <sub>N</sub>	1.5	T <sub>start</sub> /T <sub>N</sub> 0.9
Speed (r/min)	960	Starting time (s)		Starting time (s)
T <sub>N</sub> (Nm)	37	Speed (r/min)		Speed (r/min) 1457
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	5	I <sub>s</sub> /I <sub>n</sub> 3.7
		T <sub>max</sub> /T <sub>n</sub>	2.3	T <sub>max</sub> /T <sub>n</sub> 1.4
 <p>The graph plots Starting Time [s] on a logarithmic y-axis (0.1 to 100,000) against Current [%] on a linear x-axis (0 to 800). Two curves are shown: a blue line for 'Running Cold' and a red line for 'Running Hot'. Both curves show a decrease in starting time as current increases. The 'Running Cold' curve starts at approximately 500s at 100% current and drops to about 15s at 700% current. The 'Running Hot' curve starts at approximately 200s at 100% current and drops to about 8s at 700% current.</p>				
Data based on situation 8/8/2016 All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004				



Additional information:

<b>Dimension Print</b>	Motor Type:	M2BAX 132S_2-6 B3, B6, B7, B8, V5, V6	Document No:	3GZC500013-17 C 13 BA 132 A
	Description:	STANDARD SQUIRREL CAGE MOTOR		
Unit:	ABB Motors and Generators	Issued by:	Bin Zou	Replaces:
Date:	2015-08-04	Approved by:	Anna Feng	Replaced by:
<b>ABB Ltd.</b>		Customer Reference:		<b>ABB</b>

