IEC LV Motors	Technical Data Sheet - DOL			
	Project		Location	
Department/Author	Customer name		Customer ref	Item name 1,00001
Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages
	A	17.05.2023	untitled.xlsm	1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	***TEFC, 3-phase, squirrel cage induction motor***			
2	Product code	***3GAA 182 430-ADG***		Calc. ref.	3GZF021018-289
3	Type/Frame	***M3AA 180MLC 4***			
4	Mounting	***IM1001, B3(foot)***			
5	Rated output P_N	***30***	kW		
6	Service factor	***1***			
7	Type of duty	***S6 60%***			
8	Rated voltage U_N	***400***	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f_N	***50***	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n_N	***1474***	r/min		
11	Rated current I_N	***56,5***	A		
12	No-load current	***21***	A		
13	Starting current I_s/I_N	***7,3***		Meet IEC 60034-12, N,(H at 60 Hz)	
14	Nominal torque T_N	***194***	Nm		
15	Locked rotor torque T_S/T_N	***2,7***			
16	Maximum torque T_{max}/T_N	***2,9***			
17	Minimum torque T_{min}/T_N	***1,9***			
18	Speed at minimum torque	***300***	r/min		
	Load characteristics (IEC 60034-2-1:2014)	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	*100*	**56,5**	**92,3 / IE2**	**0,83**
20		*75*	**43,4**	**93,5**	**0,8**
21		*50*	**32,6**	**93,5**	**0,71**
22		*Start*	**412**		**0,48**
23	Maximum starting time from hot	***6***	s		
24	Maximum starting time from cold	***11***	s		
25	Insulation class / Temperature class	***F / B***			
26	Ambient temperature	***40***	°C		
27	Altitude	***1000***	m.a.s.l.		
28	Enclosure	***IP55***			
29	Cooling system	***IC411 self ventilated***			
30	Bearing DE/NDE	***6310-2Z/C3 - 6209-2Z/C3***			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	***62***	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	***0,217***	kg-m2		
34	Balancing				
35	Vibration class				
36	Position of terminal box	***Top***			
37	Terminal box entries; no, dimens.				
38	Number of power terminals				
39	Direction of rotation	***CW or CCW***			
40	Weight of rotor	***58***	kg		
41	Total weight of motor	***177***	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46					
47					
48					

Option	Variant Codes / Definition
49	
50	095 Restamping output (maintained voltage, frequency), intermittent duty (S6 60%)
51	
52	

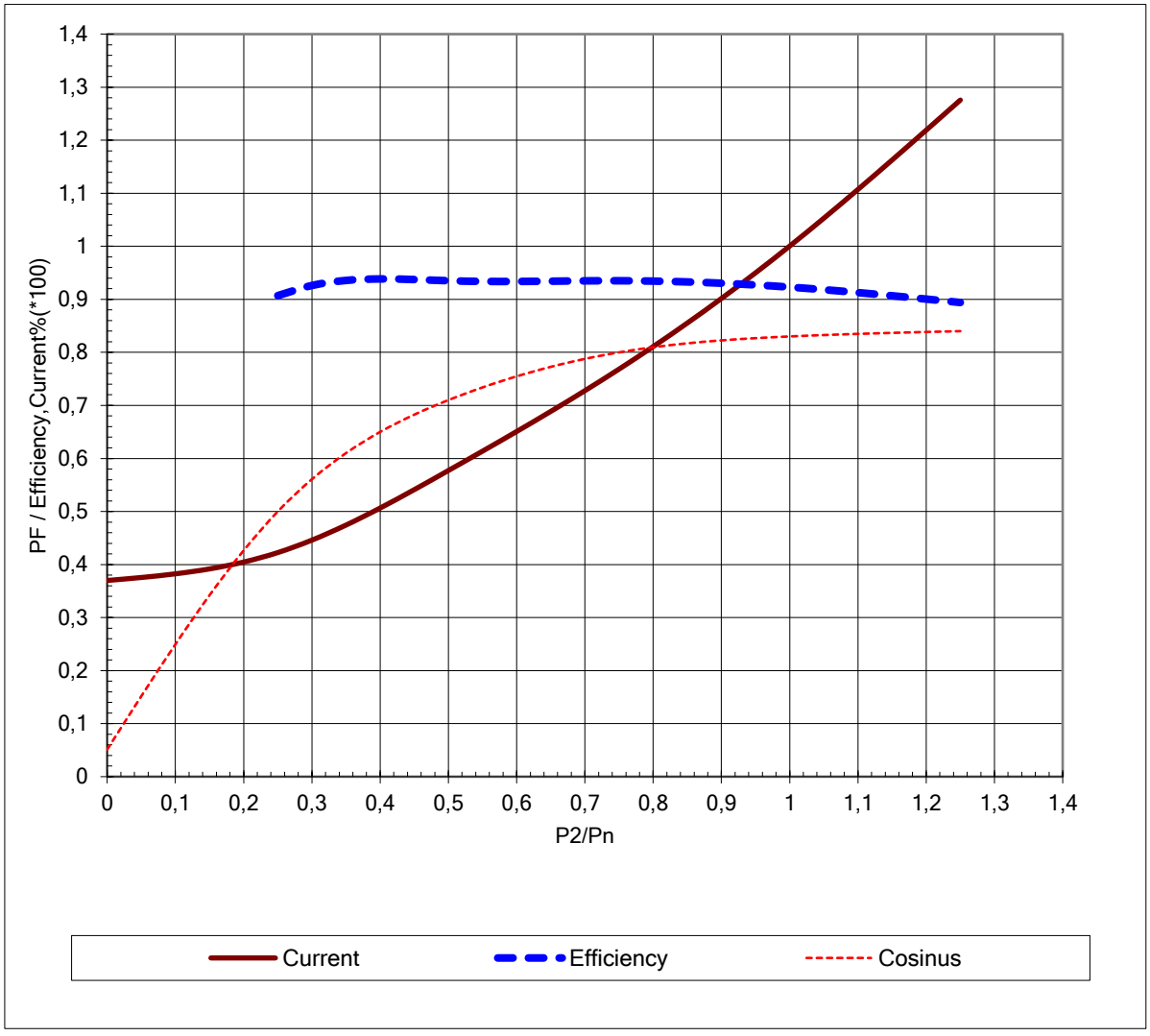
Remarks:

Data based on situation 13.07.2022
All data subject to tolerances in accordance with IEC
Guaranteed values on request

IEC LV Motors	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref	Item name **1,00001**
Our ref.	Rev/Changed by Date of issue **A** **17.05.2023**	Saving ident **untitled.xlsm**	Pages **2(3)**

Product	**TEFC, 3-phase, squirrel cage induction motor**		
Type/Frame	**M3AA 180MLC 4**	Calc. ref.	**3GZF021018-289**
Product code	**3GAA 182 430-ADG**		
Rated output P_N	**30** kW		
Type of duty	**S6 60%**		

Voltage (V)	**400**	Current I_N (A)	**56,5**	Power factor at P_N	**0,83**
Frequency (Hz)	**50**	Speed (r/min)	**1474**	Efficiency (%) at P_N	**92,3**



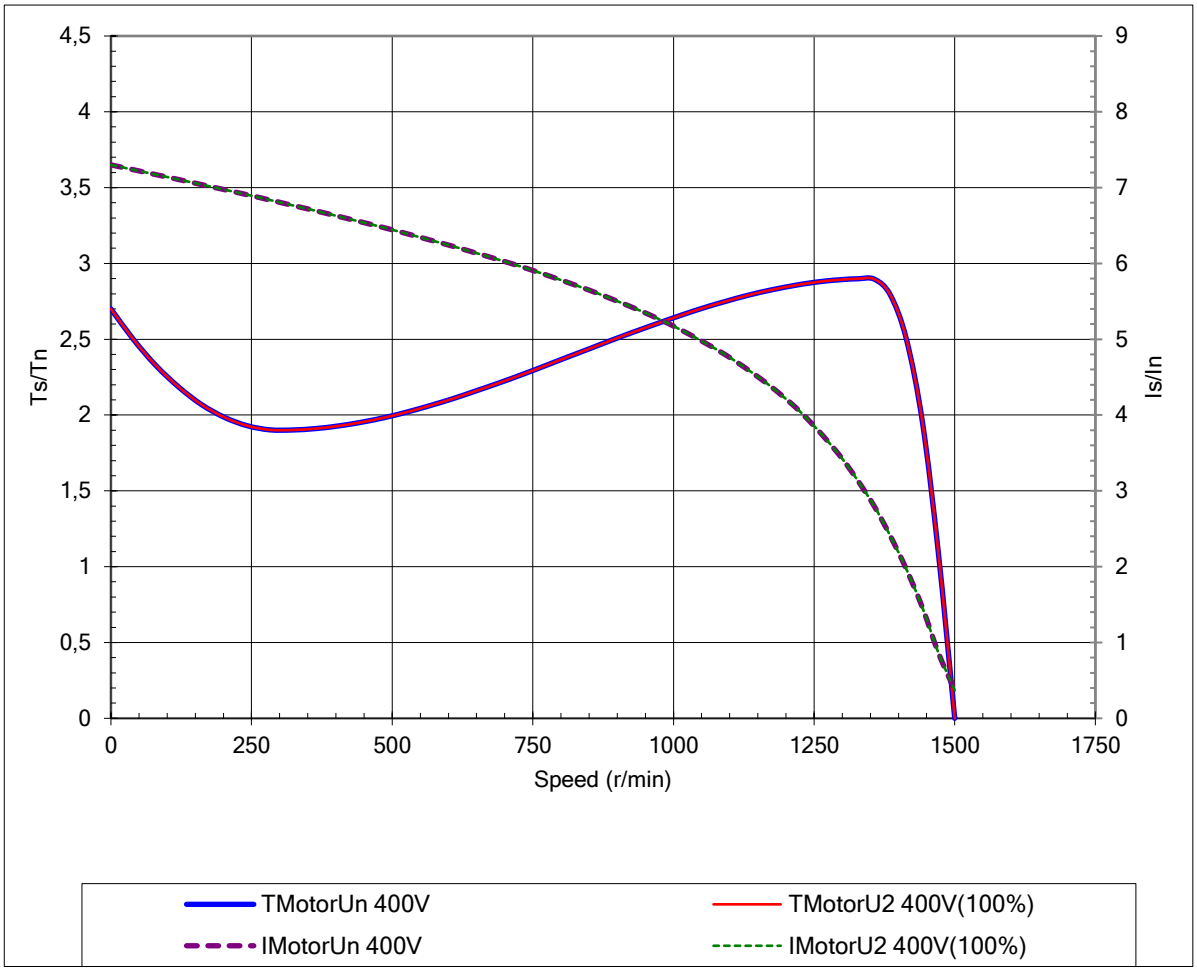
Load characteristics (IEC 60034-2-1:2014)
Data based on situation 13.07.2022

All data subject to tolerances in accordance with IEC

IEC LV Motors	Starting Curves		
	Project	Location	
Department/Author	Customer name	Customer ref	Item name **1,00001**
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages
	A **17.05.2023**	**untitled.xlsm**	**3(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M3AA 180MLC 4**		Calc. ref.	3GZF021018-289	
Product code	**3GAA 182 430-ADG**		Frequency (Hz)	**50**	
Rated output P_N	**30**	kW	Rated current I_N	**56,5**	A
Type of duty	**S6 60%**				

J_{motor} (kgm2)	**0,22**	Voltage (V) 100%	***400***	Voltage (V)	***400V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***2,7***	T_{start}/T_N	***2,7***
Speed (r/min)	**1474**	Starting time (s)		Starting time (s)	
T_N (Nm)	**194**	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	***7,3***	I_s/I_n	***7,3***
Nbr. of Consecutive Starts at UN		T_{max}/T_n	***2,9***	T_{max}/T_n	***2,9***



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 13.07.2022

All data subject to tolerances in accordance with IEC