



Electric motors

2SRC Series

Three phase synchronous motors

Powerful, efficient and flexible...

Technical catalogue



Quality management and certificates



VYBO Electric is a modern High-tech energy saving company that pays high attention to quality, environment, safety and precision and efficiency of work and energy in production. Therefore, it holds a lot of certificates and quality control systems. **Our priority is quality control.**

Basic certificates include:

ISO9001

The primary task of the ISO 9001 standard is to focus on system management and quality management in the organization. The satisfaction of the customer and the fulfillment of his requirements, which are specified in contracts, orders, or technical drawings, are in the first place. The quality management system is linked to all processes in the company. The standard focuses on the management of human and financial resources, on the stability of infrastructure, including buildings, transport, hardware, software and other communication or information technologies. An important part is also the planning of production and services, the management of the purchasing process, but also the management of non-conforming products.



ISO14001

The main priority of the ISO 14001 standard is to identify and understand the environmental aspects and activities that are related to the entire infrastructure of the company and, based on this, to regulate the environmental impact on the environment.

In its scope, the ISO 14001 standard creates the conditions for determining environmental goals and plans, the fulfillment of which is examined at regular intervals by top management and also by an independent body during internal audits.



This standard is intended for all organizations and companies that consider environmental protection as their primary goal.

The benefit of the standard for society is mainly:

- control over the environmental impact on the environment
- control over produced emissions and waste
- saving material and energy
- prevention of accidents
- compliance of the company's activities with legal requirements
- zero fines for environmental behavior
- creation of a good reputation and prestige of the company

The ISO 45001

Specification (formerly known as OHSAS 18001) is an internationally recognized standard that declares compliance with the principles of a safe enterprise, managing risks at work and protecting the health of workers during work. It does not only concern danger and accidents, but also emphasizes other aspects such as the good condition and mental well-being of the employee.



The certificate is held in Slovakia as STN ISO 45001:2019 and is under the title Management systems of safety and health protection at work. Requirements with guidance for use. It replaces the STN OHSAS 18001 standard.

ISO50001

Energy management systems Energy efficiency help organizations save money, save energy resources and also help to prevent climate change. ISO 50001 encourages organizations in all sectors to use energy more efficiently through the development of an energy management system. The international standard ISO 50001: 2011 specifies the requirements for building, maintaining and improving the energy system. It aims to enable organizations to implement a systematic approach that will help achieve lasting improvements in energy efficiency, energy use and consumption.



Basic information

These series of metallurgical and crane 3-phase motor 2SRC with slip ring wound rotor are specially used to drive metallurgical crane and other similar machines with better overload capability and mechanical strength. Therefore, it is suitable for short time duty or intermittent periodic duty and equipments with frequent starting and braking or distinct vibration and impact.

The motor can work well when the altitude does not exceed 1000 m.

There are 2 classes of insulation (F and H class). F is applicable to suit temperature which coolant air does not exceed 40°C under normal condition. Class H is suitable for metallurgical sites when ambient temperature no exceeding 60 °C.

The motors posses a better enclosure, degree of protection IP44 for normal site condition and IP54 for metallurgical condition.

Rated voltage and frequency is 380 V and 50Hz.



Basic information of 2SRC

Phase:	3-phase
Speed:	1000 / 750 / 600 rpm
Frame size:	112 - 400
Voltage:	380 V
Frequency:	50
Protection class:	IP44/IP54
Insulation class:	F/H
Cooling type:	IC 411 cooling (TENV), IC 416 cooling (TEFV)
Temperature:	no more than +40 °C (F class) no more than +60 °C (H class)
Instalation height:	1000 m above sea level

Product notes

2SRC 132 M1 - 6

squirrel rotor cage

axis height

iron core lenght of frame

number of poles

The basic duty of motor is S3-40%, the relation between frame size and degree table below:

Table 1:

Frame size	Synchr. speed	1000 (r/min)	750 (r/min)	600 (r/min)
112M		1,5	-	-
132M1		2,2	-	-
132M2		3,7	-	-
160M1		5,5	-	-
160M2		7,5	-	-
160L		11	7,5	-
180L		15	11	-
200L		22	15	-
225M		30	22	-
250M1		37	30	-
250M2		45	37	-
280S		55	45	37
280M		75	55	45
315S		-	75	55
315M		-	90	75
355M		-	-	90
355L1		-	-	110
355L2		-	-	132
400L1		-	-	160
400L2		-	-	200



Product notes

Relations of equal start number with with spot start, brakes and start number:

Table 2:

Duty type	Starts/h	Start & Braking Condition			Equivalent Starts/h
		Point Starts/h	Brakes/h	Bra. & Reve./h	
S3	6	0	0	0	60
S3	4	8	0	0	
S3	2	8	2	0	
S4	150	0	0	0	
S4	100	200	0	0	
S5	80	0	80	0	150
S5	65	130	65	0	
S5	30	160	30	30	
S4	300	0	0	0	
S4	200	400	0	0	
S5	160	0	160	0	300
S5	130	260	130	0	
S5	60	320	60	60	
S4	600	0	0	0	
S4	400	800	0	0	
S5	320	0	320	0	600
S5	260	520	260	0	
S5	120	640	120	120	



Operating Mode and Technical Data

The operation of intermittent periodic duty type is suitable to these motors and it can be divided into below ways according to varied load characteristics:

1. Short time duty (S2): Operation is under constant load in fixed time and the motor is resting when the heat balance is not reached in a period of time. The motor is cooled and the temperature difference between motor and medium is limited within 2K.
2. Intermittent periodic duty (S3): To run according to a series of identical cycles, the running time under constant load and the time of rest are included by period of one cycle (see Fig. 1), but the time is shorter and does not make motor to a heat balance condition. The starting current should be not to affect the temperature rise obviously.
3. Intermittent periodic duty with starting (S4): The run according to a series of identical cycle, each cycle is formed by a starting time, a constant load time and rest time. (see Fig. 2) But the time is short without condition making motor to a heat balance.
4. Intermittent periodic duty with starting and electric braking (S5): It runs according to a series of identical cycle, there are starting time, constant load time, electric quick-braking time and a rest time in each cycle. But the motor cannot reach the condition of heat balance in such short time (Fig. 3).

When you choose the motor, various conditions of starting and braking have to be converted into a equivalent data of starts/hour according to equivalent heat then the motor quota is determined by the equivalent data. The example is shown in Table 2.

When the point start speed is end, the speed does not exceed 25% of rated speed i.e. four times equals ones of starting. Ones electric braking (To brake to one third of rated speed) is equal to 80% of start. The motors in the Table 3 and 4 show the data of delivery condition on the name plate only under basic duty. If you need a duty type out of S2 to S5 the consultation with manufacturer is needed.

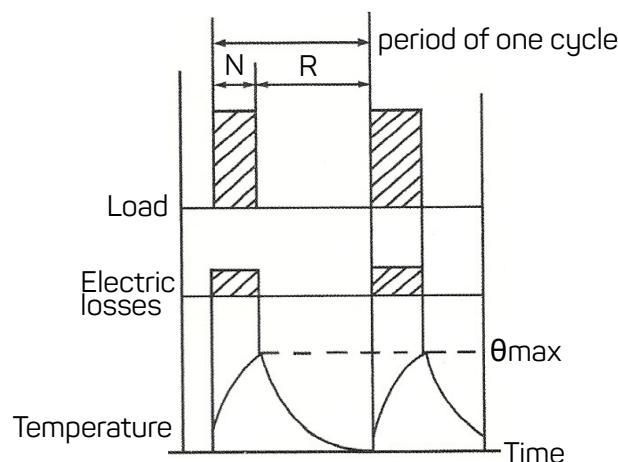


Fig. 1 Intermittent period duty type S3:
N = Operation under rated condition
R = At rest and deenergized
 θ_{max} = maximum temperature attained during the duty cycle;

$$\text{Intermittent rate: } FC = \frac{N}{N + R} \times 100\%$$



Operating Mode and Technical Data

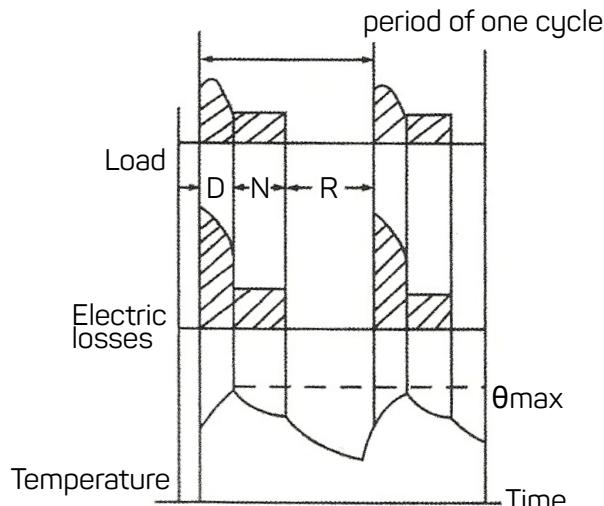


Fig. 2 Intermittent period duty with starting type S4:

D= starting

N = Operation under rated condition

R = At rest and deenergized

θ_{max} = maximum temperature attained during the duty cycle;

$$\text{Intermittent rate: FC} = \frac{D+N}{D+N+R} \times 100\%$$

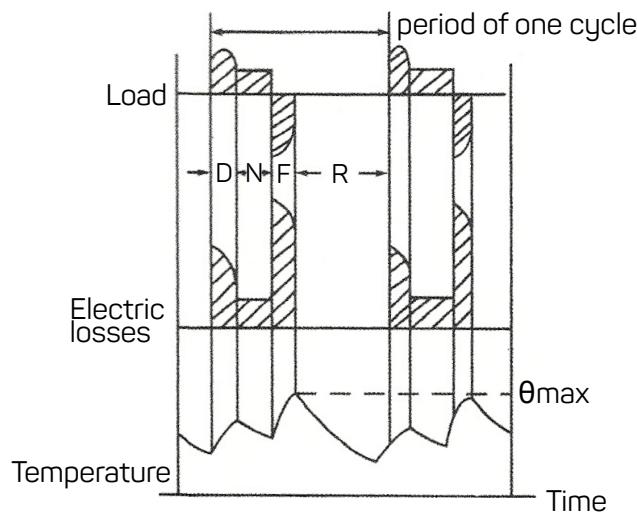


Fig. 3 Intermittent period duty with starting & electric braking type S5:

D= starting

N = Operation under rated condition

R = At rest and deenergized

F = Electric braking

θ_{max} = maximum temperature attained during the duty cycle;

$$\text{Intermittent rate: FC} = \frac{D+N+F}{D+N+F+R} \times 100\%$$



Technical data of 2SRC series

Table 3:

Table 4:

Frame size	S4 and S5																								Rotor Voltage	Moment of inertia (kg.m ²)	Weight (kg)			
	150 starts / h						300 starts / h						600 starts / h						60%			60%								
	25%			40%			60%			40%			60%			60%			60%			60%								
	kW	I1	I2	n	kW	I1	I2	n	kW	I1	I2	n	kW	I1	I2	n	kW	I1	I2	n	kW	I1	I2	n						
	1000 r/min																													
112M	1.6	475	11,3	845	1,3	4,2	8,85	890	1,0	3,75	6,57	920	1,2	4,0	8,0	900	0,9	3,7	5,87	930	0,7	3,4	4,46	946	100	0,028	74			
132M1	2,2	60	11,2	908	2,0	5,7	10	913	1,7	5,3	8,4	931	1,8	5,4	8,95	926	1,6	5,1	7,87	936	1,35	4,9	6,8	945	132	0,058	97			
132M2	3,7	97	13,1	915	3,5	9,2	11,2	925	2,8	8,5	9,65	940	3,3	9,4	11,9	925	2,7	8,5	9,65	940	2,3	6,0	7,5	950	185	0,065	108			
160M1	5,8	15,5	27,3	927	5,0	14,1	23,4	935	4,8	13,8	22,7	937	4,8	14,1	23,4	935	4,5	13,8	22,4	937	3,8	12,2	17,5	946	138	0,118	154			
160M2	7,5	18	27,6	940	7,0	17,1	25,6	945	6,0	15,6	21,8	954	6,0	15,6	21,8	954	5,5	14,8	19,8	959	4,0	13	14,2	970	185	0,145	160			
160L	11	28,3	27,8	950	10	23	25	957	8,0	19,5	19,8	969	9,0	19,5	19,8	969	7,5	18,7	18,5	971	6,0	16,7	14,2	978	250	0,195	174			
180L	15	33	43,7	960	13	29,5	37,7	965	12	28	34,6	969	12	28	34,6	969	11	26,6	31,7	972	9,0	23,6	22,9	978	218	0,375	230			
200L	21	47	55,4	965	18,5	42,5	48,5	970	17	40,5	53,8	973	17	40,5	52,6	973	15	37	40	975	11	31,5	28,5	981	200	0,65	320			
225M	28	58	70	965	25	53	62,2	969	22	50	54,5	973	22	50	54,5	973	20	46	49,4	977	15	39	36,8	982	250	0,825	398			
250M1	33	63	82,6	970	30	58	74,9	973	28	54	69,8	975	26	52	64,6	975	25	50	62,1	978	17,5	39	43,2	984	250	1,5	512			
250M2	42	78	90,5	967	37	70	79,3	971	33	63	70,5	975	31	60	66,1	976	30	58	63,9	977	24	49	50,9	981	290	1,75	559			
280S	52	95	116	970	45	83	100	974	42	80	93,6	975	40	76	89	977	37	71	82,2	978	30	64	66,5	980	280	2,3	747			
280M	70	130	115	972	62	114	102	975	55	90,5	104	978	52	98	85,5	979	47	92	77,3	981	37	78	61	982	370	2,8	848			
	750 r/min																													
160L	7,5	19	22,8	712	7,0	18,1	21,2	716	5,8	16,4	17,3	724	6,0	16,7	18	722	5,0	15,5	14,9	727	3,8	13,7	11,2	732	205	0,195	172			
180L	11	25,4	40,6	711	10	23,5	36,6	717	8	20,5	28,8	728	8,0	20,5	28,8	728	7,5	19,7	26,9	729	5,8	17,8	20,6	736	172	0,375	230			
200L	15	34	54,1	713	13	30	46,6	718	12	28,2	43	720	12	28,2	43	720	11	27	39,1	724	9	23	28,1	731	178	0,65	317			
225M	21	45	56,8	718	18,5	41	49,7	721	17	38	45,6	724	17	38	45,6	724	15	35,1	40	727	11	31	29,1	733	232	0,8	390			
250M1	29	61,5	68,5	700	25	54	58,7	705	22	49	51,9	712	22	49	51,9	712	20	46	46,2	716	15	39	34,2	725	272	1,5	515			
250M2	33	70	62,5	725	30	64	56,6	727	28	61	52,8	728	26	58	48,9	728	23	50	47	731	18,5	45	34,4	736	335	1,75	563			
280S	42	91	85,8	719	37	83	75,6	723	33	76,3	67	726	31	74	63,5	728	30	72	61,5	732	24	64	49,1	733	305	2,3	747			
280M	52	104	90,2	727	45	93	77,7	730	42	89	72,4	732	42	89	72,4	732	37	83	63,5	735	30	73	51,4	737	360	2,8	848			
315S	64	118	132,7	731	60	110,5	124,2	733	56	106	115,8	733	52	100	107	725	48	94	98,8	736	35	80	71,7	740	302	7,05	1050			
315M	75	142	136	725	72	136	130,7	725	65	126	117,6	727	60	120	108	729	55	116	99	729	41	100	73,7	732	372	8,5	1170			
	600 r/min																													
280S	33	78,7	141,8	578	30	74	125	579	28	71	116	580	36	68	108	582	25	66	103	583	17	56	69,8	588	150	3,5	767			
280M	42	98,7	154	565	37	90	136	569	33	84,3	118	573	31	82	110	574	28	78,5	98	577	22	72,5	75	582	172	3,9	840			
315S	50	110	128,4	583	45	100	115,3	585	42	96	1074	586	40	94	102,2	587	37	90	94,5	587	30	84	76,3	589	242	7,05	1026			
315M	65	144	129	584	63	136	119	585	55	130	109	586	53	126	98,7	587	48	124	94,7	588	37	114	73	589	325	8,5	1156			
355M	80	160,5	149,7	587	72	156	134,5	588	65	140	121	589	60	130	112	590	55	124	102,4	590	41	104	76,19	591	330	14	1520			
355L1	100	185	157	586	90	170	142	588	80	155	126,5	589	75	150	119	590	70	145	111	591	50	120	78,4	594	388	16,75	1764			
355L2	120	250	149,8	588	110	230	137,5	589	95	210	122,7	591	90	205	116,2	591	80	190	130,2	592	60	165	77,1	594	475	18,75	1810			
400L1	146	314	223	588	130	288	199	589	115	268	175	590	110	260	168	591	97	247	148	592	75	220	114	594	395	24	2400			
400L2	185	396	223	590	165	365	262	589	145	332	183	592	140	324	176	592	123	298	155	592	95	265	122	594	460	275	2950			



Technical data of 2SRC series

Mode of cooling:

- Frame 112~132 use the form of natural cooling (IC410)
- Frame 160~400 use the form of self fan cooling (IC411).

The installation and construction is in table 5:

Table 5:

Installation type	Symbol	Range (Frame size)
	IM1001	112~160
	IM1003	180~400
	IM1002	112~160
	IM1004	180~400
	IM3001	112~160
	IM3003	180
	IM3011	112~160
	IM3013	180~315

- The shaft extension can be made according to customers request or dimension.
- Transmission through shaft coupling or spur gear may be used. If the latter is taken, the minimum pitch circle diameter should be not less than double the diameter of shaft extension end.
- Terminal box at the top of frame has two outlet directions along both sided of motor for stator but the rotor's outlet position may be from both sides of end cover.
- The measures are taken to prevent slack on the fastener of motor.
- The brush type is J201 and formats see in Table 6 and 7

Table 6:

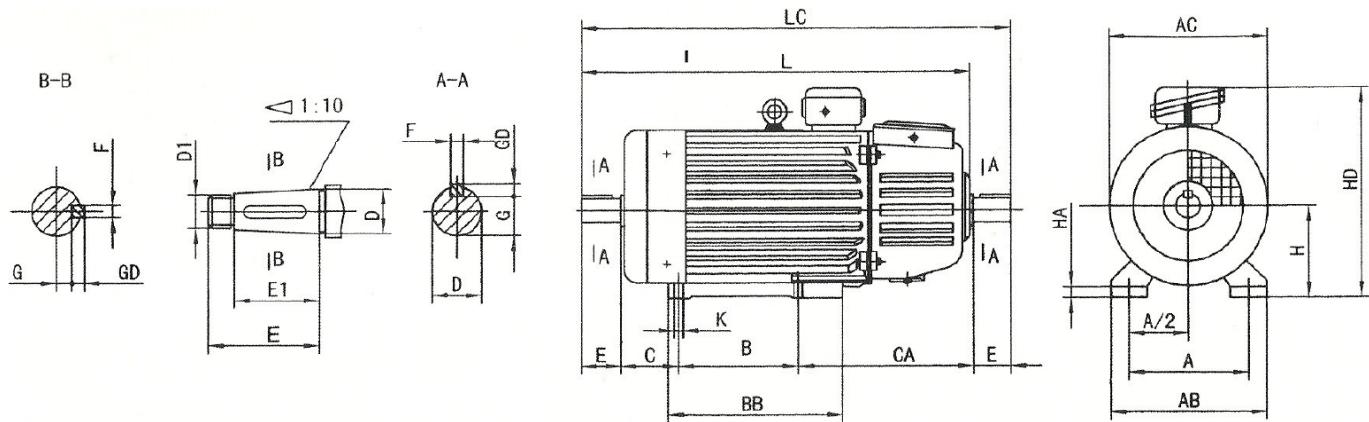
Frame size	The dimensions of brush (mm)	The output diameter of slip-ring (mm)
2SRC112	20x8x32	100
2SRC132	20x8x32	100
2SRC160	25x10x40	112
2SRC180	25x10x40	125
2SRC200	32x12,5x50	140
2SRC225	32x12,5x50	140

Table 7:

Frame size	The dimensions of brush (mm)	The output diameter of slip-ring (mm)
2SRC250	40x12,5x50	160
2SRC280	40x20x60	200
2SRC315	40x20x60	200
2SRC355	50x20x60	250
2SRC400	50x20x60	250



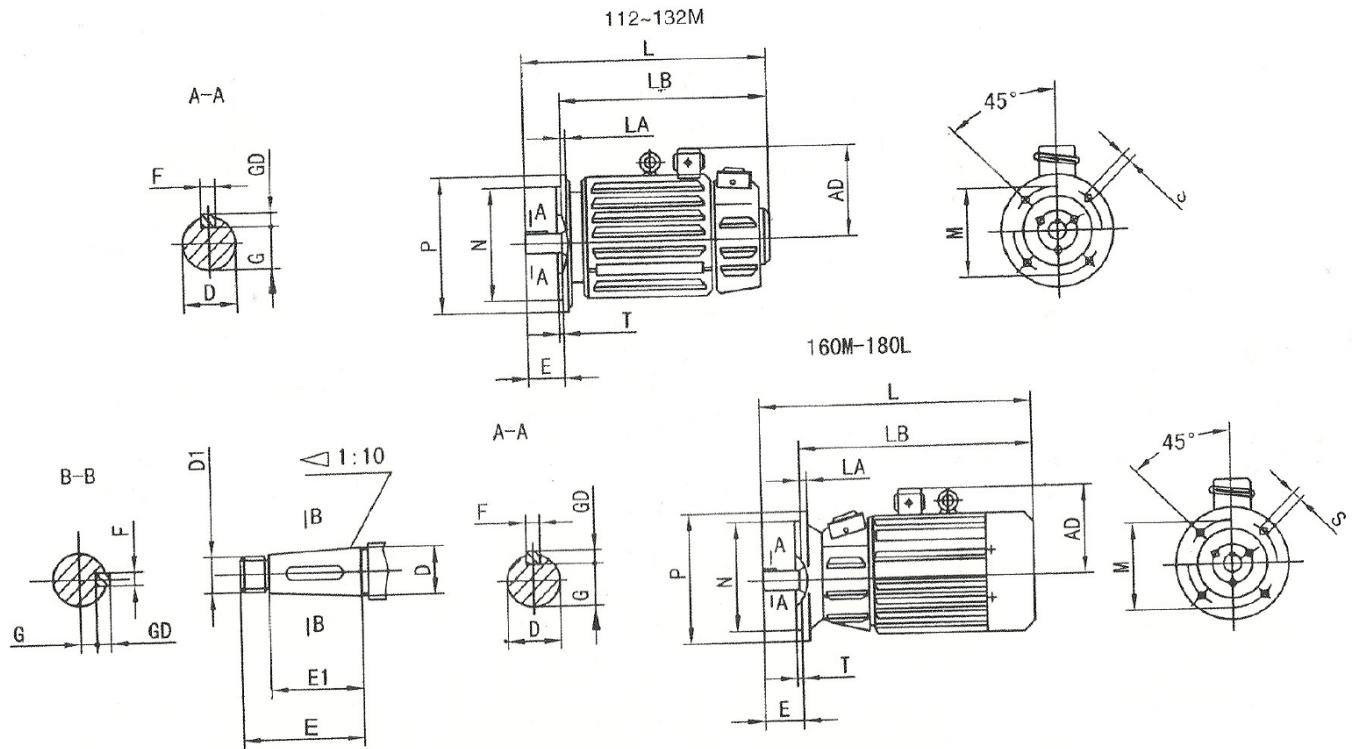
Installation and dimension of series 2SRC112-400 IM1001, 1002, 1003, 1004



Frame size	Dimensions of Installation										Overall dimensions													
	H	A	B	C	CA	K	Diameter of screw	D	D ₁	E	E ₁	F	G	GD	AC	AB	HD	BB	L	LC	HA			
112M	112	190	140	70	300	12	M10	32				10	27	8	245	250	335	235	590	670	15			
132M	132	216	178	89				38				33			285	275	365	260	645	727	17			
160M	160	254	210	108	330			48				42,5		9	325	320	425	290	758	868				
160L		254				15	M12		110		14							335	800	912	20			
180L	180	279	279	121	360			55	M36 x 3		82	19,9			360	360	465	380	870	980	22			
200L	200	318	305	133	400	19	M16	60	M42 x 3			214	10	405	405	510	400	975	1118	25				
225M	225	356	311	149	450			65		140	105	23,9			430	455	545	410	1050	1190	28			
250M	250	406	349	168				70	M48 x 3			25,4	11	480	515	605	510	1195	1337	30				
280S	280	457	368	190	540	24	M20			85	M56 x 4		31,7	12	535	575	665	530	1265	1438	32			
280M		419								170	130							580	1315	1489				
315S	315	508	406	216								22	35,2		620	640	750		1390	1562	35			
315M		457																630	1440	1613				
355M	355	610	560	254	600	28	M24					110	M80 x 4	210	165	25	41,9	710	740	840	730	1650	1864	38
355L		630																800	1720	1934				
400L	400	686	710	280			35	M30	130	M100 x 4	250	200	28	50	16	840	855	950	910	1865	2120	45		



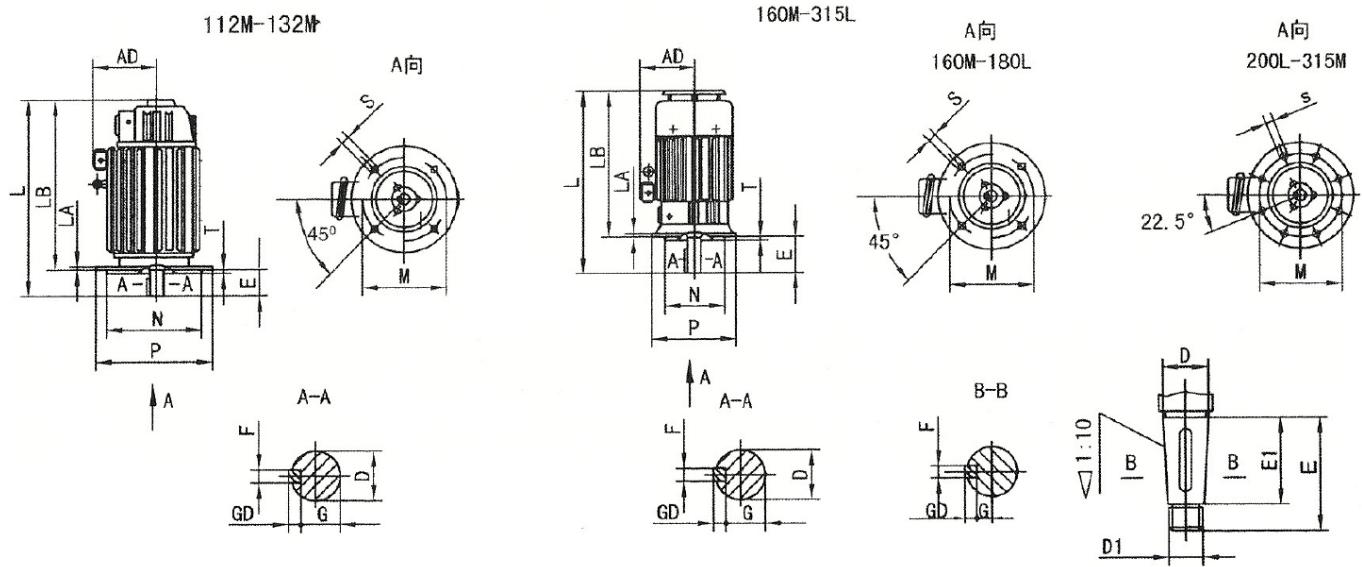
Installation and dimension of series 2SRC112-180 IM3001, 3003



Frame size	Dimensions of Installation										Overall dimensions						
	M	N	P	T	Diameter of screw	Hole number	D	D1	E	E1	F	GD	G	L	LA	LB	AD
112M	215	180	250	4	M12		32		80		10	8	27	595	14	515	220
132M	265	230	300				38		-				33	645		565	230
160M						4	48						42,5	828		718	260
160L	300	250	350	5	M19			110		14	9		872		18	762	
180L							55	M36x3		82			19,9	915		805	280



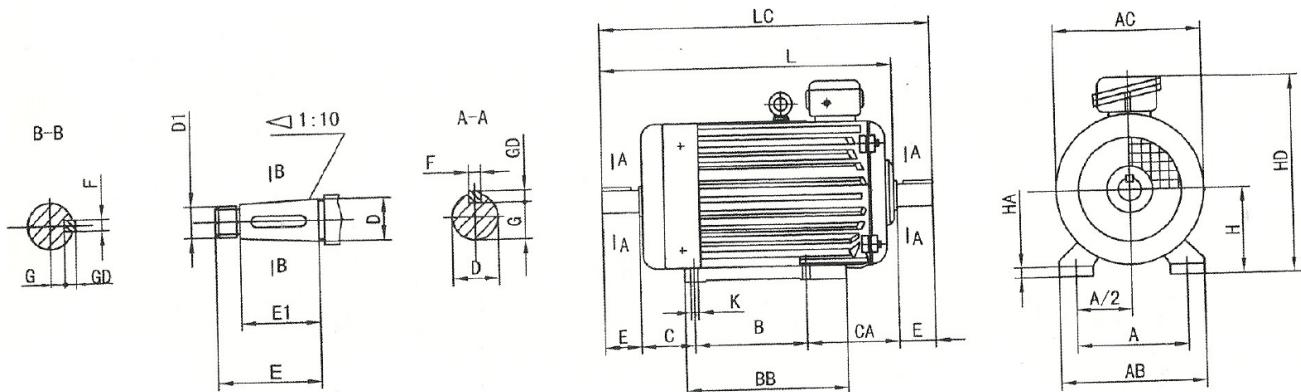
Installation and dimension of series 2SRC112-315 IM3001, 3003



Frame size	The symbol of flange	Dimensions of Installation							Overall dimensions										
		M	N	P	T	S	Diameter of screw	Hole number	D	D1	E	E1	F	G	GD	L	LA	AD	LB
112M	F215	215	180	250	4	15	M12		32		80		10	27	8	595	14	220	515
132M	F265	265	230	300					38		-		33		645		230	565	
160M								4	48						828		260	718	
160L	F300	300	250	350						110		14	42,5	9	872	18		762	
180L									55	M36x3		82		19,9		915		280	805
200L	F400	400	350	450	5	19	M16		60	M42x3			16	21,4	10	1050	20	320	910
225M									65		140	105		23,9		1110			970
250M									70	M48x3			18	25,4	11	1266		355	1126
280S	F500	500	450	550					85	M56x4			20	31,7	12	1370	22	385	1200
280M											170	130				1420			1250
315S	F600	600	550	660	6	24	M20		95	M64x4			22	35,2	14	1475	25	435	1305
315M																1525			1355



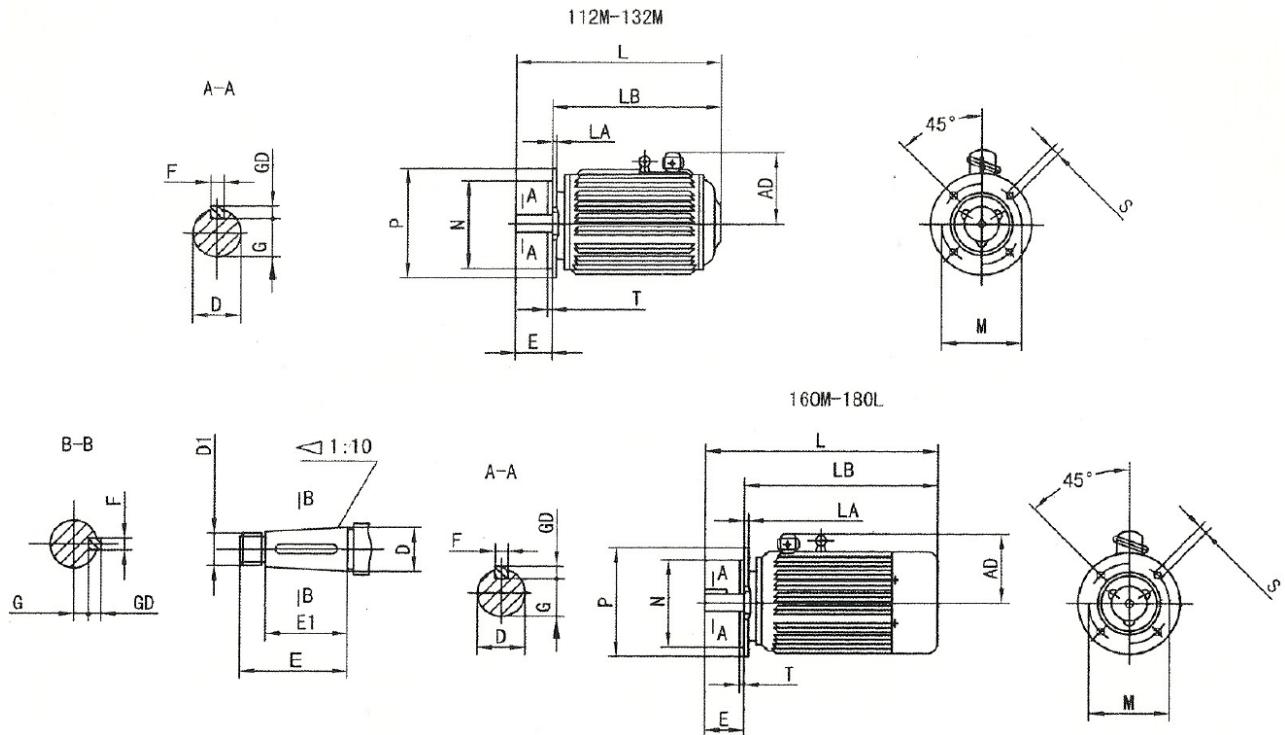
Installation and dimension of series 2SRC112-250 IM1001, 1002, 1003



Frame size	Dimensions of Installation											Overall dimensions									
	H	A	B	C	CA	K	Diameter of screw	D	D1	E	E1	F	G	GD	AC	AB	HD	BB	L	LC	HA
112M	112	190	140	70	135	12	M10	32		80		10	27	8	245	250	335	235	420	505	15
132M	132	216	178	89	150			38	-	-	-		33		285	275	365	260	495	577	17
160M	160	254	210	108				48					42,5		325	320	425	290	608	718	20
160L		254			180	15	M12			110		14		9				335	650	762	
180L	180	279	279	121				55	M36x3		82		19,9		360	360	465	380	685	800	22
200L	200	318	305	133	210	19	M16	60	M42x3			16	21,4	10	405	405	510	400	780	928	25
225M	225	356	311	149	258			65		140	105		23,9		430	455	545	410	850	998	28
250M	250	406	349	168	295	24	M20	70	M48x3			18	25,4	11	480	515	605	510	935	1092	30



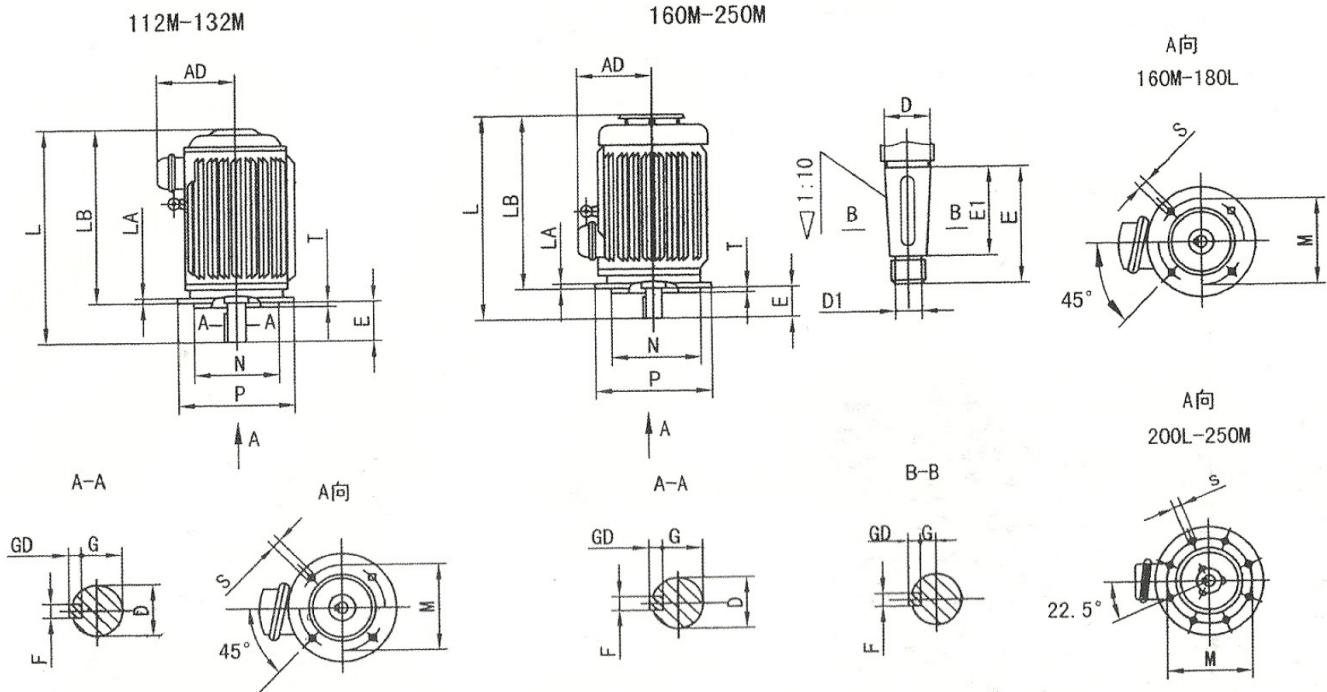
Installation and dimension of series 2SRC112-180 IM3001, 3003



Frame size	The symbol of flange	Dimensions of Installation										Overall dimensions							
		D	D1	E	E1	F	G	M	N	P	R	S	Diameter of screw	T	Hole number	AD	L	LA	LB
112M	FF215	32			80		10	27	215	180	250		15	M12	4	220	430	14	350
132M	FF265	38		-			33	265	230	300						230	495		415
160M																			
160L	FF300	48			110		14	42,5	300	250	350		19	M16	5	260	700		590
180L					55	M36x3		82		19,9						260	743	18	633
																280	735		625



Installation and dimension of series 2SRC112-250 IM3011, 3013



Frame size	The symbol of flange	Dimensions of Installation										Overall dimensions								
		M	N	P	T	S	Diameter of screw	Hole number	D	D1	E	E1	F	G	GD	L	LA	AD	LB	
112M	FF215	215	180	250		4	15	M12		32			10	27	8	430	14	220	350	
132M	FF265	265	230	300					38		-		80	33	8	495	230	230	415	
160M									4											
160L	FF300	300	250	350						48						700	18	260	590	
180L						5	19	M16			110	14	42,5	9	743	18	280	633		
200L	F400	400	350	450						55	M36x3	82	19,9	735						
225M										60	M42x3	140	105	16	21,4	10	855	20	320	715
250M	F500	500	450	550						65		23,9		18	25,4	11	945		355	775
										70	M48x3			1005	22				865	





Address

VYBO ELECTRIC a. s.
Radlinského 18
052 01 Spišská Nová Ves
Slovenská republika

tel: +421 944 105 361
e-mail: mv@vyboelectric.eu

www.vyboelectric.com



SOLUTIONS FOR INDUSTRY

BUREAU VERITAS
Certification



VYBO Electric a.s.

Radlinského 18, 052 01 Spišská Nová Ves
Slovak Republic

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001: 2015

Scope of certification

MANUFACTURE AND SALE OF ELECTRIC MOTORS. SALES AND DEVELOPMENT OF VARIABLE FREQUENCY DRIVES.

Original cycle start date: 18.05.2022

Expiry date of previous cycle: N/A

Certification Audit date: 31.03.2022

Certification cycle start date: 18.05.2022

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 17.05.2025

Certificate No. SK-U22 055E

Version: 1

Issue date: 18.05.2022

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Plynárenská 7/8, BRATISLAVA 821 05, Slovak Republic



Further details regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity (please call: +421 2 5341 4165)

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Certificate

Awarded to

VYBO Electric a.s.

Radlinského 18, 052 01 Spišská Nová Ves
Slovak Republic

BUREAU VERITAS CERTIFICATION CZ s.r.o. certifies that the Management System of the above organization has been studied and found to be in accordance with the requirements of the management system standard detailed below

Standard

ISO 45001:2018

Scope of supply

MANUFACTURE AND SALE OF ELECTRIC MOTORS. SALES
AND DEVELOPMENT
OF VARIABLE FREQUENCY DRIVES.

Original Approval Date: 18.05.2022

18.05.2022

Expiry date of previous cycle: N/A

N/A

Certification Cycle Start Date: 18.05.2022

18.05.2022

Certification Cycle End Date: 17.05.2025

17.05.2025

Subject to the continued satisfactory operation of the organization's Management System, this certificate is valid until:

17.05.2025

To check this certificate validity please call: +420 210 098 215

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.

Version 1 Issue Date: 18.05.2022
Certificate Number: CZE - 2200117



ISSUING OFFICE: BUREAU VERITAS CERTIFICATION CZ s.r.o., Olšanské 1, 110 00 Prague 4, Czech Republic
ISSUING OFFICE ADDRESS: BUREAU VERITAS CERTIFICATION CZ s.r.o., Olšanské 1, 142 32 Prague 4, Czech Republic

1/1



Reg. No. 153/Q-011



Slovakia

CERTIFICATE

TÜV SÜD Slovakia s.r.o.
Certification Body for Management Systems

Accredited by SNAS

Certificate on accreditation No. Q-011

certifies that



VYBO Electric a.s.
Radlinského 18
SK – 052 01 Spišská Nová Ves
IČO: 45 537 143

has established and applies
a Quality Management System for

Manufacture and sale of electric motors.
Sales and development of variable frequency drives.

An audit was performed, Report No. 2264/40/22/Q/AS/C
Proof has been furnished that the requirements
according to

STN EN ISO 9001:2016

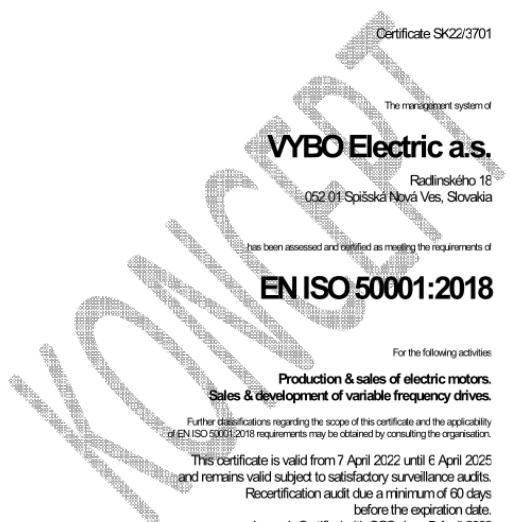
are fulfilled. The certificate is valid from 2022-04-14 until 2025-04-13

Certificate Registration No. Q 2264-1

Bratislava, 2022-04-14

TÜV SÜD Slovakia s.r.o.
Certification Body for Management Systems
Member of Group TÜV SÜD
Jaslickova 6, 821 03 Bratislava

F-Q-019/26



Certificate SK22/3701

The management system of

VYBO Electric a.s.

Radlinského 18
052 01 Spišská Nová Ves, Slovakia

has been assessed and certified as meeting the requirements

of EN ISO 50001:2018

For the following activities

Production & sales of electric motors.
Sales & development of variable frequency drives.

Further details regarding the scope of this certificate and the applicability

of EN ISO 50001:2018 requirements may be obtained by consulting the organization.

This certificate is valid from 7 April 2022 until 6 April 2025

and remains valid subject to satisfactory surveillance audits.

Recertification audit due a minimum of 60 days

before the expiration date.

Issue 1. Certified with SGS since 7 April 2022

Authorised by

Ing. Robert Bodnár
Director

SGS Slovakia spol. s r.o.
Kysucká 14, 040 11 Košice, Slovakia

t +421 55 783 61 11; f +421 55 783 61 20; www.sgs.com

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