

TELEPHONE: 1-800-463-0400

www.jrperreault.com

CANTONI Brake Motors Premium Eff.

Quick Stop for Fast Response Motor Applications

1-30 HP 3PH TEFC 60 Hz NEMA AC Foot Mounted and C-Face Motors

Features

- Inverter Duty Rated: 10:1CT & 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC F1 Rigid Cast Iron Frame
- Warranty: 3-Years
- 208-230/460V 60Hz
- Class "F" insulation with rise below Class "B"
- F1 / F2 convertible
- High lock rotor and brake torque
- VPI applied for best electrical performance
- DC Brake with 460V Rectifier
- Manual Release
- Oversized double shielded bearings
- Drain Plugs
- CSA-US certified, DOE approved, CE and NEMA Premium marked

Applications

Outstanding durability and performance brake motors ideal for hoists, cranes, conveyors, elevators, speed reducers and other industrial applications where a quick stop and positive holding torque are necessary.



BRAKE MOTORS: DC RECTIFIED

MOTEUR FREIN D.C. AVEC REDRESSEUR
 INCLUANT RELACHEMENT MANUEL
 ISOLATION DE CLASSE F (155°C)
 ELEVATION DE TEMPERATURE DE CLASSE B (90°C)
 MOTEURS COMPLETEMENT FERMÉS AUTO-VENTILÉS IP55
 INVERTER DUTY: 5:1 CONSTANT ET 10:1 VARIABLE, NEMA MG-1, PART 31

DC RECTIFIED BRAKE MOTOR INCLUDING RECTIFIER
 MANUAL RELEASE INCLUDED
 INSULATION CLASS F (155°C)
 CLASS B TEMPERATURE RISE (90°C)
 TOTALLY ENCLOSED FAN COOLED MOTORS IP 55
 INVERTER DUTY: 5:1 CONSTANT AND 10:1 VARIABLE, NEMA MG-1, PART 31



TYPE	MODEL	VOLT CODE	HP	RPM	FRAME	ENCL	LISTE
BRK3-	56C0.33M4-	XXX	1/3	1800	56C	TEFC	828.00 \$
BRK3-	56C0.50M4-	XXX	1/2	1800	56C	TEFC	855.00 \$
BRK3-	56C0.75M4-	XXX	3/4	1800	56C	TEFC	886.00 \$
BRK3-	56C1.0M4-	XXX	1	1800	56C	TEFC	1 007.00 \$
BRK3-	143TC1.0M4-	XXX	1	1800	143TC	TEFC	1 007.00 \$
BRK3-	56C1.5M4-	XXX	1.5	1800	56C	TEFC	1 053.00 \$
BRK3-	143TC1.5M4-	XXX	1.5	1800	145TC	TEFC	1 053.00 \$
BRK3-	56C2.0M4-	XXX	2	1800	56C	TEFC	1 200.00 \$
BRK3-	143TC2.0M4-	XXX	2	1800	145TC	TEFC	1 200.00 \$
BRK3-	SIE182T4-	XXX	3	1800	182T	TEFC	3 715.00 \$
BRK3-	SIE184T4-	XXX	5	1800	184T	TEFC	4 040.00 \$
BRK3-	SIE213T4-	XXX	7.5	1800	213T	TEFC	5 075.00 \$
BRK3-	SIE215T4-	XXX	10	1800	215T	TEFC	5 153.00 \$
BRK3-	SIE254T4-	XXX	15	1800	254T	TEFC	7 420.00 \$
BRK3-	SIE256T4-	XXX	20	1800	256T	TEFC	8 282.00 \$
BRK3-	SIE284T4-	XXX	25	1800	284T	TEFC	9 864.00 \$
BRK3-	SIE286T4-	XXX	30	1800	286T	TEFC	10 286.00 \$
BRK3-	SIE324T4-	XXX	40	1800	324T	TEFC	16 855.00 \$
BRK3-	SIE326T4-	XXX	50	1800	324T	TEFC	17 166.00 \$
BRK3-	SIE364T4-	XXX	60	1800	324T	TEFC	19 745.00 \$
BRK3-	SIE365T4-	XXX	75	1800	324T	TEFC	20 104.00 \$

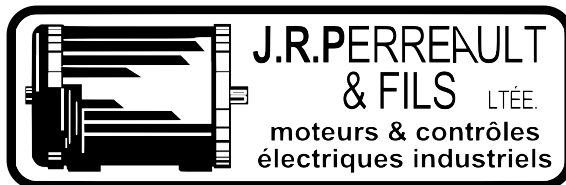
TYPE	MODEL	VOLT CODE	HP	RPM	FRAME	ENCL	LISTE
BRK1-	56C0.33M4-	1X2	1/3	1800	56C	TEFC	941.00 \$
BRK1-	56C0.50M4-	1X2	1/2	1800	56C	TEFC	960.00 \$
BRK1-	56C0.75M4-	1X2	3/4	1800	56C	TEFC	998.00 \$
BRK1-	56C1.0M4-	1X2	1	1800	56C	TEFC	1 115.00 \$
BRK1-	143TC1.0M4-	1X2	1	1800	143TC	TEFC	1 115.00 \$
BRK1-	56C1.5M4-	1X2	1.5	1800	56C	TEFC	1 220.00 \$
BRK1-	143TC1.5M4-	1X2	1.5	1800	145TC	TEFC	1 220.00 \$
BRK1-	56C2.0M4-	1X2	2	1800	56C	TEFC	1 382.00 \$
BRK1-	143TC2.0M4-	1X2	2	1800	145TC	TEFC	1 382.00 \$



SIE	180TC	165.00 \$
SIE	210TC	170.00 \$
SIE	250TC	276.00 \$
SIE	280TC	329.00 \$
SIE	320TC	625.00 \$
SIE	360TC	759.00 \$

VOLT CODE:	
2X4=	230/460 VOLTS
575=	575 VOLTS

CODE:	BRK
DISC.:	



PREMIUM EFFICIENCY BRAKE MOTORS

Performance Data

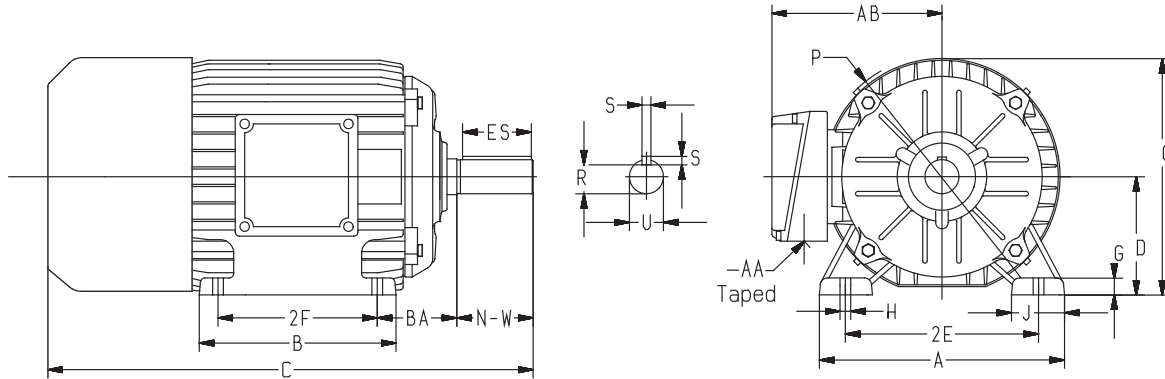
HP	RPM	Frame	Torque				FLA			LRA		Efficiency			Power Factor			NEMA Design	Code	SF	lbs
			FLT lb-ft	BT* lb-ft	LRT %	BDT %	460V	575V	208V	460V	575V	FL	75%	50%	FL	75%	50%				
1	1765	143T	3	11.8	300	320	1.4	1.1	3.1	12.9	10.3	85.5	84.5	81.3	78	70	57	B	M	1.4	53
	1160	145T	4.5	11.8	240	300	1.7	1.4	3.8	10	8	82.5	81.9	78.6	68	59	46	B	K	1.4	55
1.5	3540	143T	2.2	11.8	350	410	2.1	1.7	4.6	20	16	84.5	83.2	79.8	78	69	57	B	M	1.4	56
	1750	145T	4.5	11.8	300	400	2	1.6	4.4	16.6	13.3	87	86.8	85	79	72	59	B	K	1.4	57
	1170	182T	6.7	44.2	190	280	2.4	1.9	5.3	14	11.2	87.5	86.9	84.5	68	59	47	B	J	1.4	85
2	3525	145T	3	11.8	360	400	2.7	2.2	6.0	25.4	20.3	86	85.7	83.3	82	75	62	B	L	1.4	57
	1745	145T	6	11.8	260	340	2.6	2.1	5.8	19.2	15.4	86.5	87.1	85.8	83	77	64	B	J	1.4	59
	1170	184T	9	44.2	200	300	3	2.4	6.6	25	20	88.5	88.6	86.9	72	64	51	B	L	1.4	98
3	3500	182T	4.5	44.2	310	320	4	3.2	8.8	32	25.6	86.5	86.4	84.4	82	76	65	B	K	1.4	76
	1775	182T	8.9	44.2	320	400	4.2	3.4	9.3	38	30.4	89.5	88.5	85.8	75	67	54	A	M	1.4	102
	1165	213T	13.5	59	260	360	4.2	3.4	9.3	32	25.6	89.5	89.5	88	74	68	56	B	K	1.4	205
5	3535	184T	7.4	44.2	450	530	6.2	5.0	13.7	73	58.4	89	88.6	86.7	85	80	68	A	N	1.4	102
	1770	184T	14.8	44.2	300	380	6.7	5.4	14.8	61	48.8	89.5	89.2	87.6	78	71	58	A	L	1.3	108
	1170	215T	22.4	59	250	350	7	5.6	15.5	46	36.8	89.5	89.6	88.2	75	69	57	B	J	1.3	220
7.5	3525	213T	11.2	59	290	315	8.5	6.8	18.8	76	60.8	90	90	88.7	92	89	81	A	K	1.3	159
	1765	213T	22.3	59	240	290	9.3	7.4	20.6	71	56.8	91.7	91.6	90.5	82	78	67	A	J	1.3	167
	1185	254T	33.2	111	320	350	10.4	8.3	23.0	77.5	62	91	90.6	88.6	74	67	54	A	K	1.3	321
10	3535	215T	14.8	59	300	335	11.4	9.1	25.2	93	74.4	90.2	90.4	89.3	91	88	80	A	J	1.3	173
	1770	215T	29.6	59	230	280	12.5	10.0	27.6	87	69.6	91.7	91.7	90.4	82	77	66	A	H	1.3	185
	1180	256T	44.5	111	290	330	13.4	10.7	29.6	94	75.2	91	90.8	89.2	77	70	58	A	J	1.3	363
15	3540	254T	22.3	111	240	250	17.6	14.1	38.9	112	90	91.7	91.8	90.5	87	85	77	B	G	1.3	258
	1775	254T	44.3	111	380	440	17.3	13.8	38.3	168	134.4	92.4	92	90.7	88	84	76	A	K	1.3	301
	1185	284T	66.4	177	470	380	19.5	15.6	43.1	180	144	91.7	91.2	89	79	73	61	A	L	1.3	371
20	3540	256T	29.7	111	230	260	22.9	18.3	50.6	138	110	92	92.4	91.7	89	88	82	B	F	1.3	306
	1775	256T	59.1	111	380	450	22.9	18.3	50.6	230	184	93	92.7	91.4	88	84	76	A	L	1.2	390
	1185	286T	88.5	177	380	320	25.5	20.4	56.4	221	177	91.7	91.1	89.1	80	74	63	A	L	1.2	421
25	3555	284TS	36.9	177	260	300	29.5	23.6	65.2	205	164	92.4	92.4	91.3	86	82	74	A	H	1.2	348
	1780	284T	73.7	177	380	420	30.5	24.4	67.5	300	240	93.6	93.1	91.6	82	76	66	A	L	1.2	397
30	3540	286TS	44.5	177	250	300	35.2	28.2	77.8	215	172	91.7	92	91.2	87	85	80	A	G	1.2	390
	1780	286T	88.4	177	370	390	37.5	30.0	82.9	350	280	93.6	93	91.3	80	73	61	A	L	1.2	441

* BT = Break Torque in lb-ft

PREMIUM EFFICIENCY BRAKE MOTOR FOOTED

Mounting Dimensions

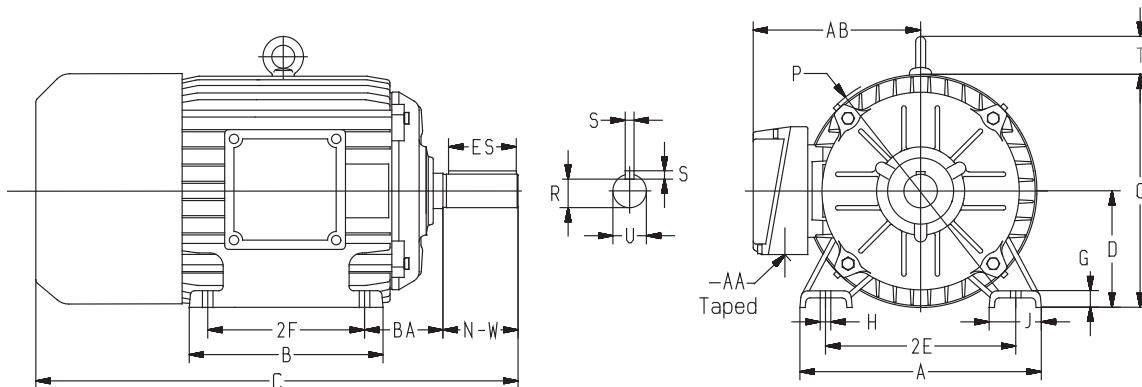
143T-145T



Frame	Mounting Dimensions											Overall Dimensions							Bearing	
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S		AB
143T	6.62	5.83	3.50	5.50	4.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	17.31	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z
145T	6.62	7.00	3.50	5.50	5.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	18.27	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

182T-286TS



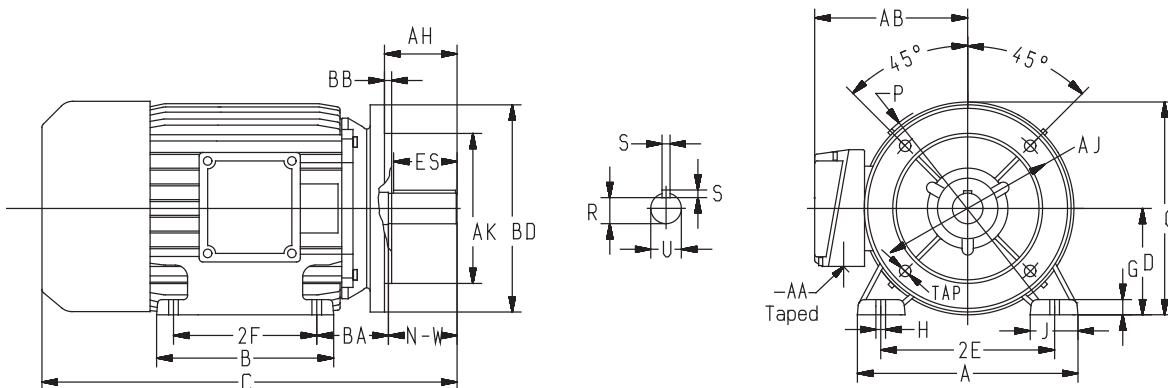
Frame	Mounting Dimensions											Overall dimensions							Bearing		
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S		T	AB
182T	9.00	6.74	4.50	7.50	4.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.21	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
184T	9.00	8.31	4.50	7.50	5.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.17	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
213T	10.24	8.10	5.25	8.50	5.50	0.41	1.201	1.375	3.38	1	3.50	2.55	23.83	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
215T	10.24	9.60	5.25	8.50	7.00	0.41	1.201	1.375	3.38	1	3.50	2.55	27.45	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
254T	12.28	9.92	6.25	10.00	8.25	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	30.31	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
256T	12.28	11.65	6.25	10.00	10.00	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	32.08	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
284T	13.78	11.61	7.00	11.00	9.50	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.46	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
284TS	13.78	11.61	7.00	11.00	9.50	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	35.16	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z
286T	13.78	13.11	7.00	11.00	11.00	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.54	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
286TS	13.78	13.11	7.00	11.00	11.00	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	34.72	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

PREMIUM EFFICIENCY MOTORS, C FACE FOOTED

Mounting Dimensions

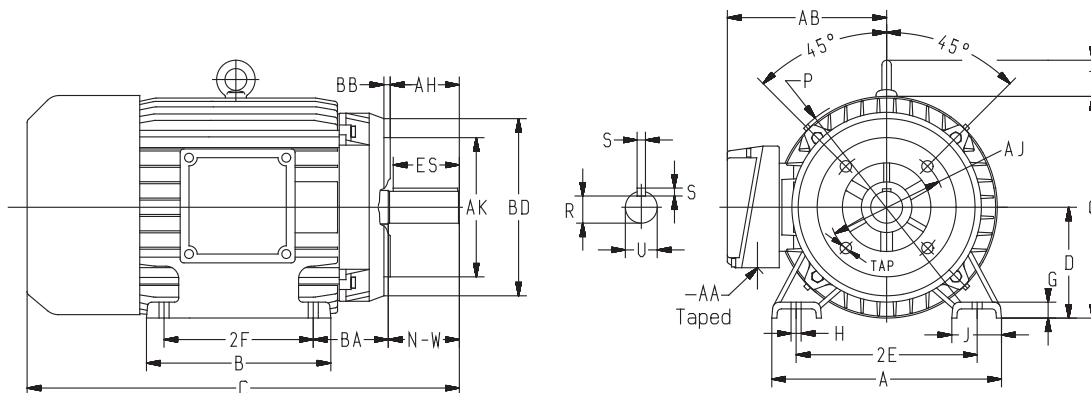
143TC-145TC



Frame	Mounting Dimensions											Overall Dimensions							Bearing	
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S		AB
143TC	6.62	5.83	3.50	5.50	4.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	17.31	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z
145TC	6.62	7.00	3.50	5.50	5.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	18.27	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

182TC-286TSC



Frame	Mounting Dimensions											Overall dimensions									Bearing
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	T	AB	
182TC	9.00	6.74	4.50	7.50	4.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.21	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
184TC	9.00	8.31	4.50	7.50	5.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.17	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
213TC	10.24	8.10	5.25	8.50	5.50	0.41	1.201	1.375	3.38	1	3.50	2.55	23.83	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
215TC	10.24	9.60	5.25	8.50	7.00	0.41	1.201	1.375	3.38	1	3.50	2.55	27.45	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
254TC	12.28	9.92	6.25	10.00	8.25	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	30.31	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
256TC	12.28	11.65	6.25	10.00	10.00	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	32.08	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
284TC	13.78	11.61	7.00	11.00	9.50	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.46	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
284TSC	13.78	11.61	7.00	11.00	9.50	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	35.16	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z
286TC	13.78	13.11	7.00	11.00	11.00	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.54	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
286TSC	13.78	13.11	7.00	11.00	11.00	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	34.72	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

Spring actuated and electromagnetically released disk brake type HPS powered by direct current.

Designed for braking rotating machine parts and their precision positioning. Utilized as safety brake. High repeatability even with large number of actuations. The brake characterizes relatively simple construction, facility for regulating brake parameters such as braking torque, braking time and also possibility of supply from alternating current source after connecting up a rectifier circuit delivered at customer's request along with the brake. An additional feature is quiet operation, particularly important when the equipment is operated by a number of drives operating additionally with high frequency of actuations. Braking torque can be accurately set by means of regulating nut.

Brake design guarantees simple and problem-free installation. Various options of executions are at disposal with respect to fittings/accessories, brake supply, climatic conditions of utilization, enabling selection of appropriate option for definite utilization conditions.

They are designed for braking rotating parts of machines and their task is :

- ❖ emergency braking to provide safety function of a drive,
- ❖ immobilising the actuators of machines to provide their positioning function,
- ❖ reducing the coasting of drives to a minimum (for safety considerations supported by Technical Inspection Authority regulations),
- ❖ built onto an electric motor, the brake provides a self-braking motor, a drive unit meeting the requirements of utilisation safety and positioning.



Parameters		Unit	Brake type										
			HPS 04	HPS 06	HPS 08	HPS 10	HPS 12	HPS 14	HPS 16	HPS 18	HPS 20	HPS 25	
Supply voltage	Un	[V]	24 , 104 , 180 , 207 VDC										
Power	P _{20°}	[W]	16	20	25	30	40	50	55	65	75	100	
Max. speed	n _{max.}	min ⁻¹	3000										
Braking torque	M _h	Nm	4	4	8	16	32	60	80	150	240	360	
Weight	G	kg	0,5	0,7	1,8	3,2	6,6	7,5	11,2	17,0	24,8	29,0	
Ambiant temperature		°C	-25 - +40										
Operating time *	On direct voltage side	t _{0,1}	ms	20	35	65	90	120	150	180	300	400	500
		t _{0,9}	ms	10	17	35	40	50	65	90	110	200	270
	On alternating voltage side	t _{0,1}	ms	20	35	65	90	120	150	180	300	400	500
		t _{0,9}	ms	Brake disconnection on alternating current side causes about five-times growth in braking time t09 with respect to disconnection on direct current side									

t_{0,1} - releasing time (from switching on current to drop in braking torque to 10% M_{nom})

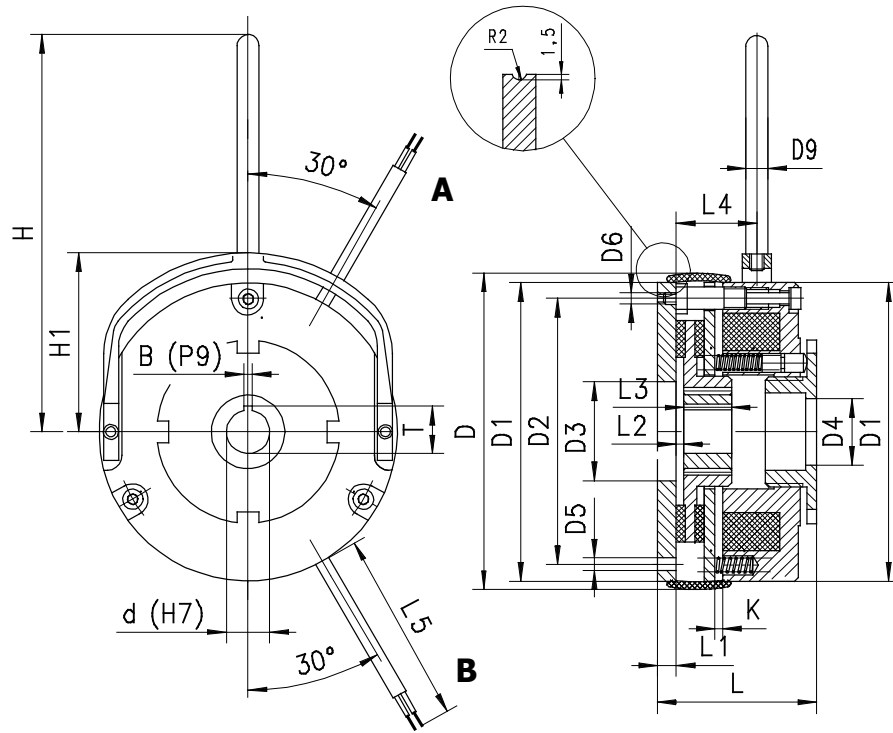
t_{0,9} - braking time (from switching off current to attaining 90% M_{nom})

*) Values of releasing and braking times are given as approximations, since they depend on mode of assembly/installation, temperature and power supply.

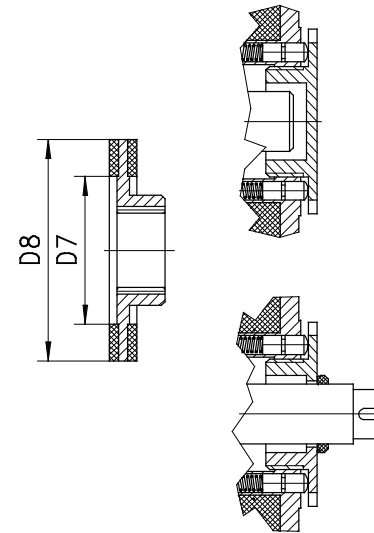
Cable output :

A – HPS12 , HPS14 , HPS16 , HPS18 , HPS20

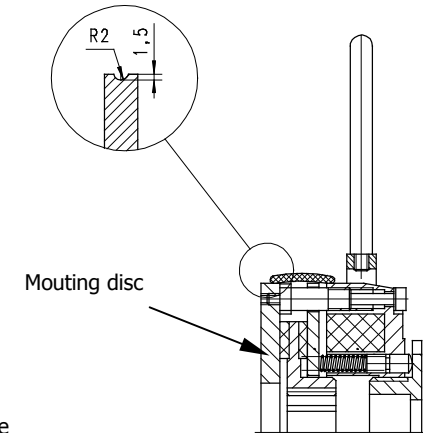
B – HPS04 , HPS 06 , HPS08 , HPS10 , HPS25



Version with regulating nut without hole



version with regulating nut with hole



Typ	D	D1	D2	D3	D4	D5	D6	D7	D8	D9	L	L1	L2	L3	L4	L5	K	H	H1	d	d max	d * smax	B	T
HPS04	80	74	62	25	13	4,3x3	M4x3	30	50	6	40	6	1,8	18	22	450	0,2	90	45	11	11		4	12,8
HPS06	87	84	72	25	17	4,5x3	M4x3	47	62	8	46	6	1,8	18	25	450	0,2	100	56	15	15		5	17,3
HPS08	106	102	90	30	17	5,5x3	M5x3	59	76	8	53	7	2,5	20	28	450	0,2	115	66	15	15		5	17,3
HPS10	132	125	112	44	21	6,4x3	M6x3	61	95	10	63	9	3,5	20	34	450	0,2	170	82	19	25		6	21,8
HPS12	157	148	132	45	27	6,4x3	M6x3	74	114	10	72	9	3	25	37	450	0,3	184	92	25	25		8	28,3
HPS14	169	162	145	55	27	8,4x3	M8x3	90	124	12	83	11	3	30	40	450	0,3	191	102	25	35		8	28,3
HPS16	195	188	170	84	38	8,4x3	M8x3	100	154	12	89	11	3	30	40	450	0,3	204	115	35	35		8	38,3
HPS18	221	215	196	104	43	9,0x4	M8x6	130	176	12	104	11	4,5	35	52	450	0,3	230	125	40	45	50	12	43,3
HPS20	257	252	230	134	45	11x6	M10x6	148	207	14	122	11	5	40	62	450	0,5	270	152	42	45	50	12	45,3
HPS25	308	302	278	120	45	11x6	M10x6	198	255	14	135	12,5	6	50	80	450	0,5	360	176	42	45	75	12	45,3

*d smax - at extra charge it is possible to manufacture the brakes with the specially increased diameter of the gear hub