

THM HUADE HYDRAULICS PVT LTD.

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We perform
"Best under Pressure"



HYBRID SERVO HYDRAULIC SOLUTIONS

PUMPS

MOTORS

DRIVES

ACCESSORIES

FEATURES OF SERVO SYSTEM



THM
HYDRAULICS



1. Highly efficient and energy-saving
In the field of injection molding machines, die-casting machines, and hydraulic equipment, our systems can achieve a 20% efficiency increase and an 80% energy saving effect, significantly reducing equipment tank volume for a cleaner, more environmentally friendly operation.

2. Versatile configuration options
Our system supports gear pumps, piston pumps, and other oil pumps, offering versatile applications for hydraulic equipment within a pressure range of 0-320 bar.

3. Low-maintenance design
With air-cooled or closed liquid-cooled solutions, our systems are optimized for high-dust, harsh on-site environments, minimizing maintenance needs.

4. Superior performance under various conditions
Our system ensures rapid and reliable speed and pressure closed-loop control, with parameter self-adaptation. The pressure control loop fluctuation is less than 0.5 bar, enabling high-precision control with a 0.01mm position accuracy when using our high-precision position sensors.

5. Cost-effective operation
In comparison to electric drive systems, our servo system offers fast and high-precision control, substantially reducing system costs.

6. Enhanced applicability across load conditions
Designed for versatility, our system performs optimally under various conditions, from continuous high-load operations to full-speed, full-pressure, and low-speed, low-pressure environments, ensuring peak performance at competitive prices.

7. Enhanced compatibility and expandability
Our system is highly adaptable, supporting high-speed buses like CANopen, MODBUS, and EtherCAT(Optional). Its strong expansion capabilities allow for seamless integration into existing setups.

SERVO SYSTEM



THM
HYDRAULICS

INDUSTRY APPLICATIONS EXAMPLES

Injection molding machine



Die-casting machine



Aluminum extrusion press



Hydraulic Press



Servo press



Motor of new energy vehicle



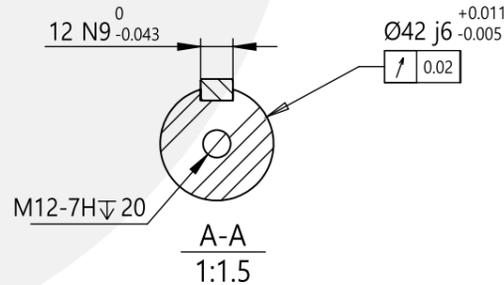
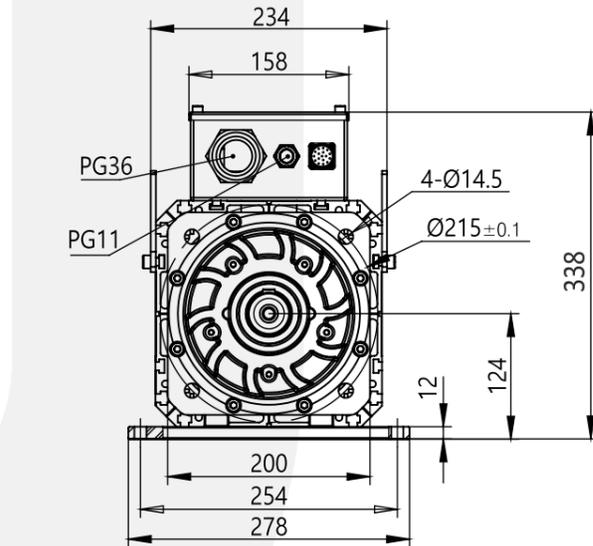
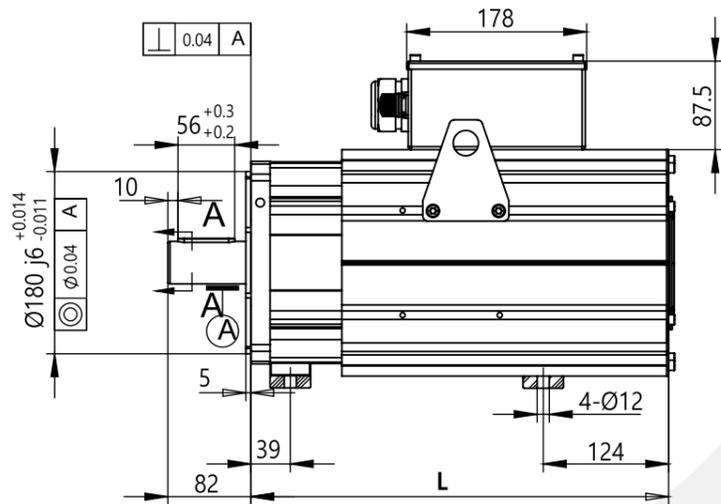
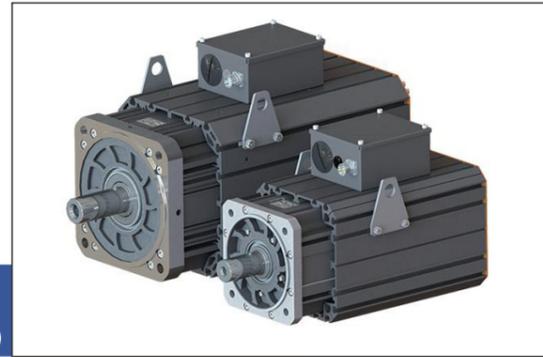
Servo Motor

THH Series

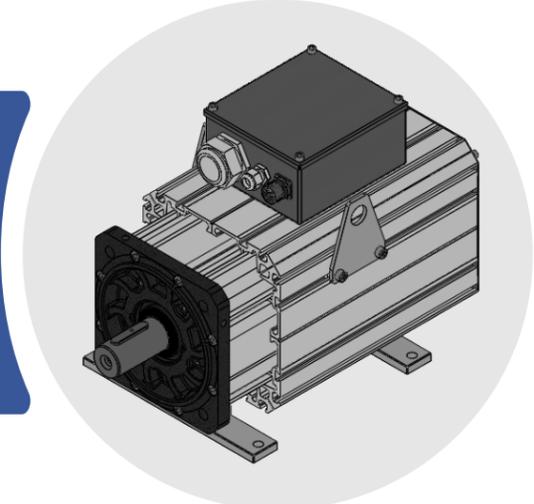
Rated Speed: 1500-1700-2000 rpm
 Rated Power: 7.1~38.3 kW

Unit Dimensions of Servo Motor THH6-18 Series

(Dimensions in mm)

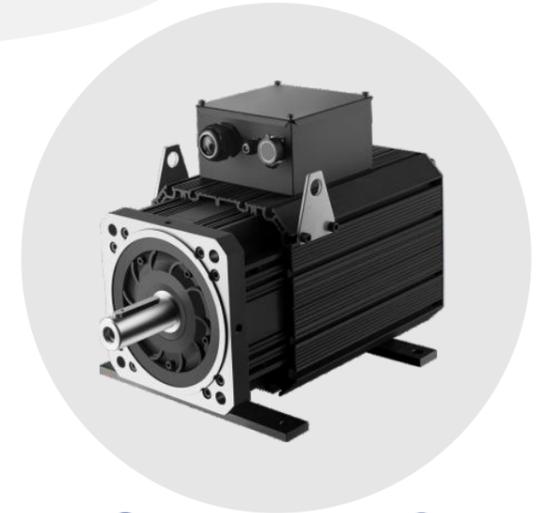
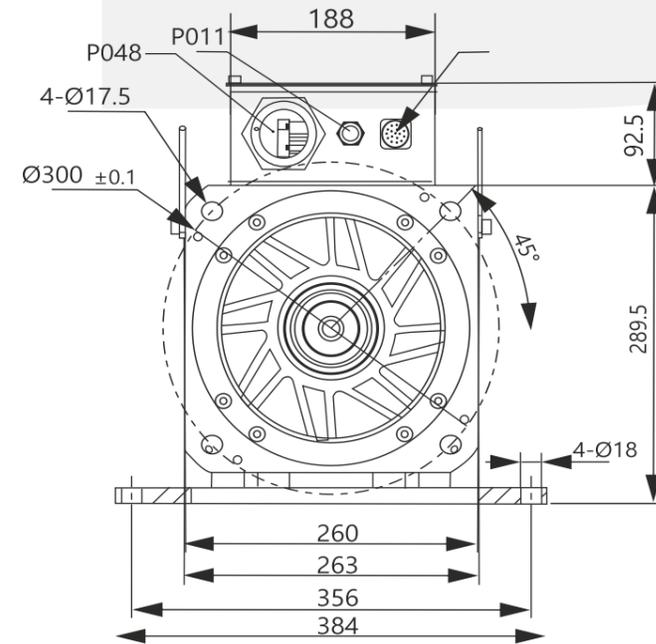
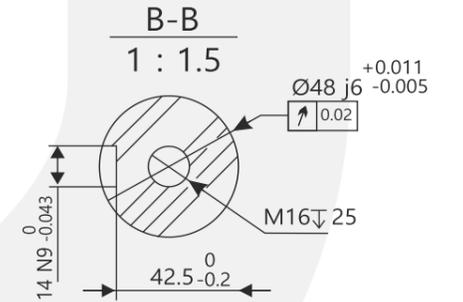
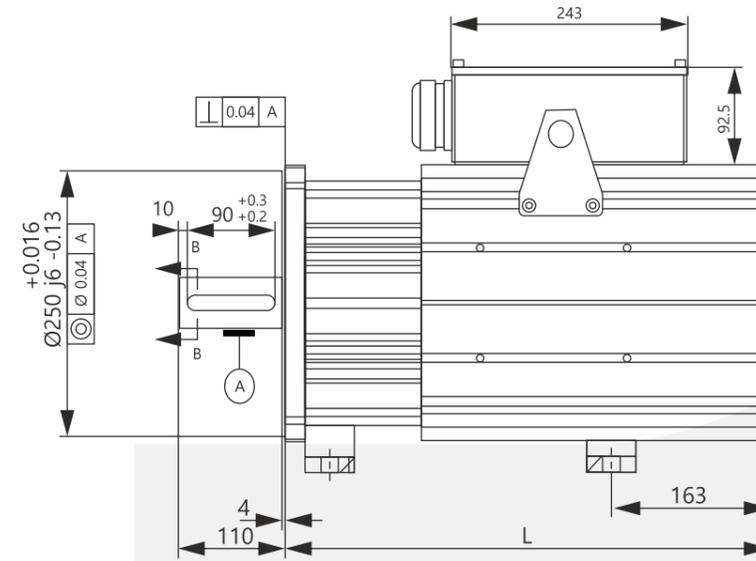


Model	L (mm)
THH6-18F03XXK3	323
THH6-18F04XXK3	323
THH6-18F05XXK3	341
THH6-18F06XXK3	359
THH6-18F07XXK3	377
THH6-18F09XXK3	395
THH6-18F10XXK3	395
THH6-18F11XXK3	413
THH6-18F12XXK3	431
THH6-18F13XXK3	449
THH6-18F14XXK3	467
THH6-18F15XXK3	485
THH6-18F16XXK3	503
THH6-18F17XXK3	521
THH6-18F18XXK3	539
THH6-18F20XXK3	593
THH6-18F22XXK3	629



Unit Dimensions of Servo Motor THH6-21 Series

(Dimensions in mm)

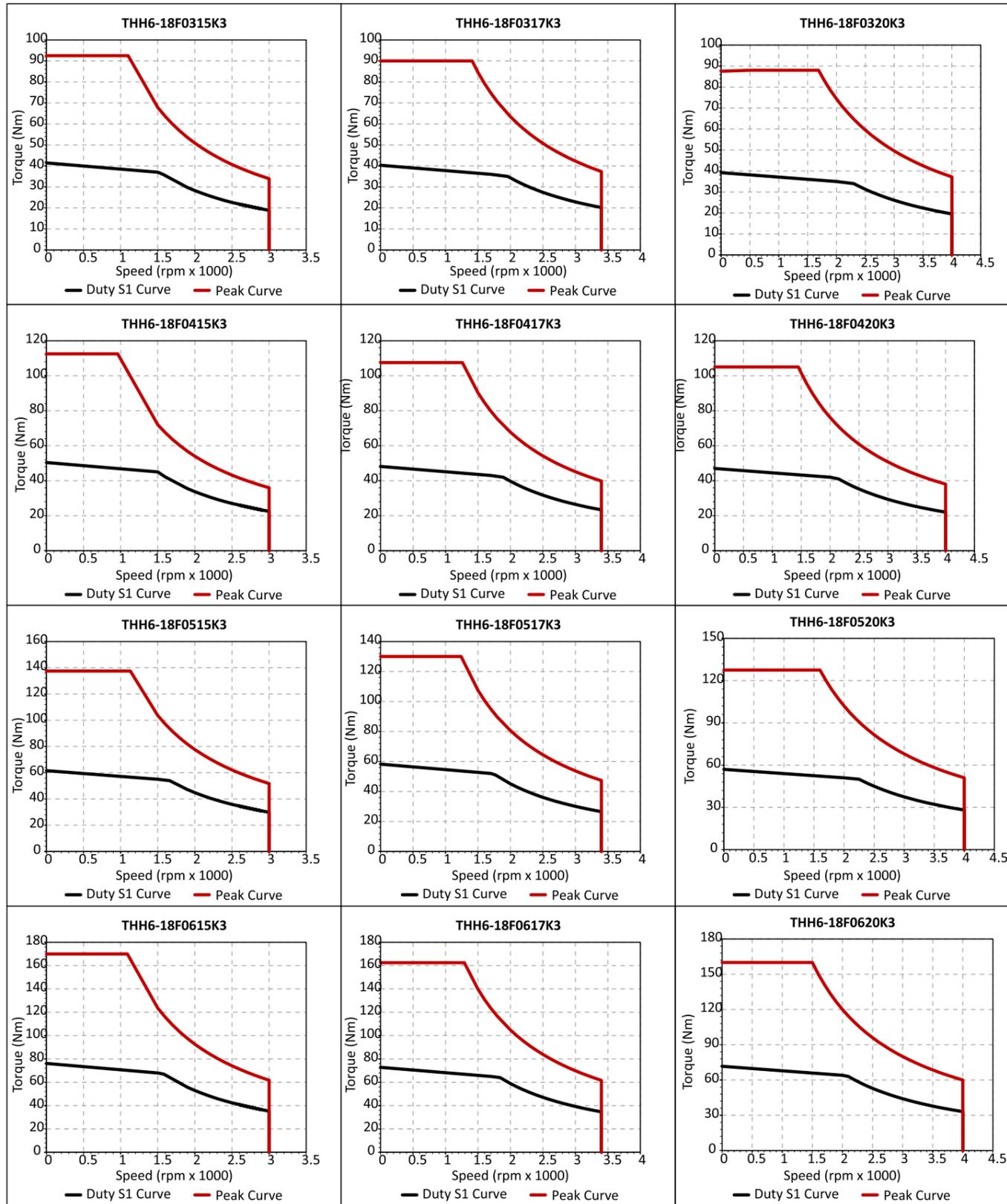


Model	L (mm)
THH6-21F19**K3	496
THH6-21F21**K3	521
THH6-21F24**K3	546
THH6-21F26**K3	571
THH6-21F31**K3	621

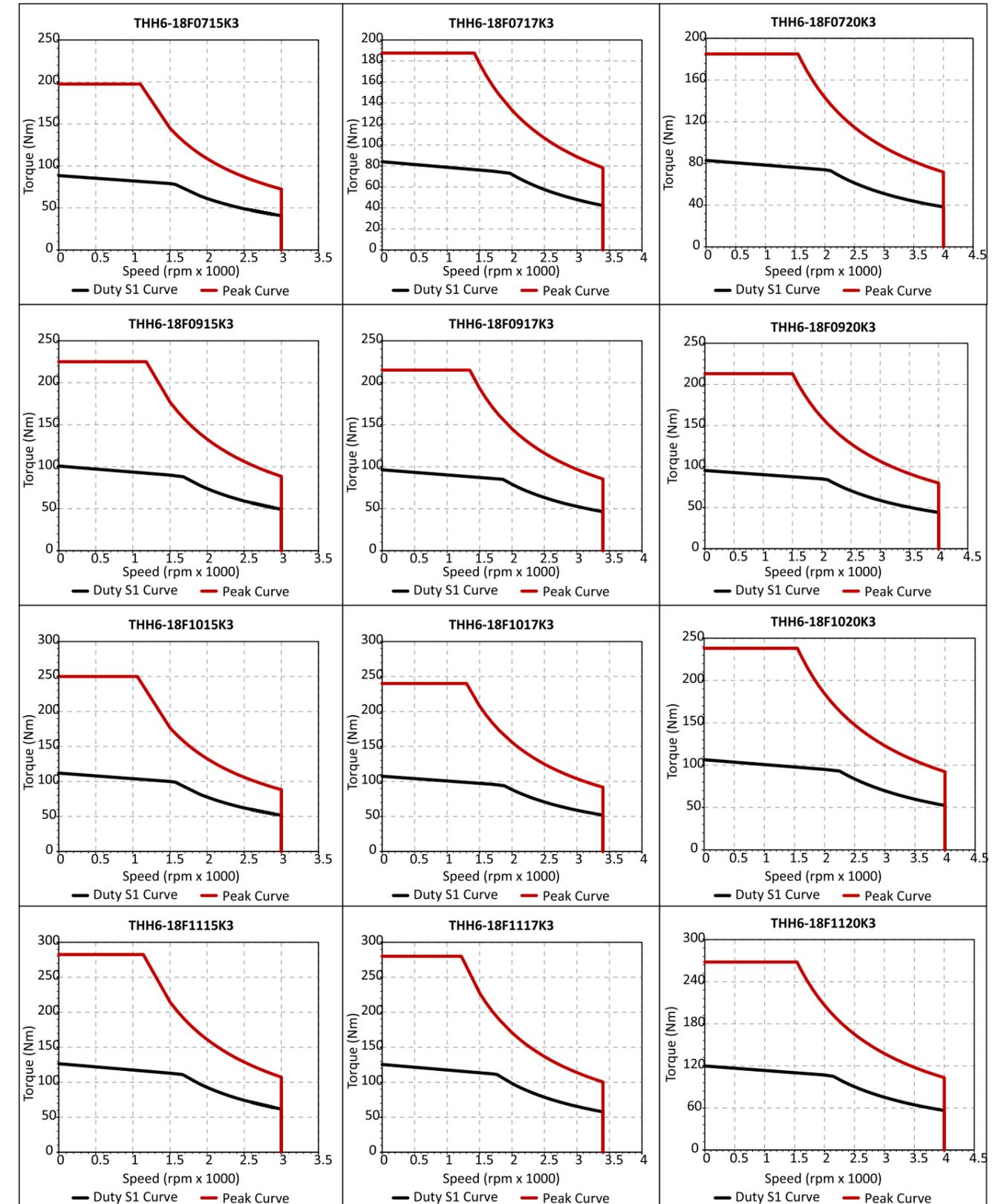
PARAMETER TABLE

MODELS	Rated Torque Nm	Maximum Torque Nm	Rated Speed rpm	Rated Current Arms	Maximum current Arms	Rated Power kW	Torque constant (cold)Nm/A	Back Electromotive force constant V/Krpm	Rated Frequency Hz	Rated Voltage (V)	Efficiency %	Moment of Inertia Kgm ² 10 ⁻³	Weight Kg
THH6-18 F0315K3-F2R4 (UID: T618142049)	37	74	1500	11.9	23.7	5.5	3.28	210	100	380	89.59%	5.1	30
THH6-18 F0317K3-F2R4 (UID: T618142050)	36	72	1700	13.1	26.9	6.2	2.89	171	113	380	89.89%		
THH6-18 F0320K3-F2R4 (UID: T618142051)	35	70	2000	14.8	31.1	7.3	2.50	148	133	380	90.33%		
THH6-18 F0415K3-F2R4 (UID: T618142052)	45	90	1500	13.6	28.7	7.1	3.48	210	100	380	90.24%	5.1	30
THH6-18 F0417K3-F2R4 (UID: T618142053)	43	86	1700	16.0	33.7	7.7	2.84	171	113	380	90.65%		
THH6-18 F0420K3-F2R4 (UID: T618142054)	42	84	2000	18.1	38.1	8.8	2.45	148	133	380	91.16%		
THH6-18 F0515K3-F2R4 (UID: T618142055)	55	110	1500	17.7	37.4	8.6	3.26	197	100	380	90.71%	5.8	35
THH6-18 F0517K3-F2R4 (UID: T618142056)	52	104	1700	17.7	37.3	9.3	3.09	187	113	380	91.08%		
THH6-18 F0520K3-F2R4 (UID: T618052010)	51	102	2000	22.3	47.1	10.7	2.41	145	133	380	91.58%		
THH6-18 F0615K3-F2R4 (UID: T618142058)	68	136	1500	20.8	43.9	10.7	3.44	208	100	380	91.31%	6.5	40
THH6-18 F0617K3-F2R4 (UID: T618142059)	65	130	1700	22.8	48.0	11.6	3.01	182	113	380	91.55%		
THH6-18 F0620K3-F2R4 (UID: T618062010)	64	128	2000	26.1	55.2	13.4	2.58	156	133	380	91.99%		
THH6-18 F0715K3-F2R4 (UID: T618142060)	79	158	1500	23.9	50.4	12.4	3.48	210	100	380	91.65%	7.2	45
THH6-18 F0717K3-F2R4 (UID: T618142061)	75	150	1700	27.8	58.8	13.4	2.84	171	113	380	91.84%		
THH6-18 F0720K3-F2R4 (UID: T618142062)	74	148	2000	30.2	63.8	15.5	2.58	156	133	380	92.32%		
THH6-18 F0915K3-F2R4 (UID: T618142063)	90	180	1500	28.6	60.4	14.1	3.31	200	100	380	91.94%	7.9	47
THH6-18 F0917K3-F2R4 (UID: T618142064)	86	172	1700	30.1	63.5	15.3	3.01	182	113	380	92.19%		
THH6-18 F0920K3-F2R4 (UID: T618092010)	85	170	2000	34.0	71.8	17.8	2.63	159	133	380	92.68%		
THH6-18 F1015K3-F2R4 (UID: T618142065)	100	180	1500	30.4	54.8	15.7	3.46	209	100	380	92.24%	7.9	50
THH6-18 F1017K3-F2R4 (UID: T618142066)	96	173	1700	34.5	62.0	17.1	2.93	177	113	380	92.49%		
THH6-18 F1020K3-F2R4 (UID: T618142067)	95	171	2000	41.6	74.8	19.9	2.41	145	133	380	92.98%		
THH6-18 F1115K3-F2R4 (UID: T618142068)	113	203	1500	36.4	65.6	17.7	3.26	197	100	380	92.51%	8.7	55
THH6-18 F1117K3-F2R4 (UID: T618142069)	112	202	1700	38.1	68.6	19.9	3.09	187	113	380	92.76%		
THH6-18 F1120K3-F2R4 (UID: T618112010)	107	193	2000	45.2	81.4	22.4	2.49	151	133	380	93.23%		
THH6-18 F1215K3-F2R4 (UID: T618142070)	124	223	1500	37.5	67.5	19.5	3.48	210	100	380	92.71%	9.3	60
THH6-18 F1217K3-F2R4 (UID: T618142071)	118	212	1700	44.3	79.8	21.0	2.80	169	113	380	93.02%		
THH6-18 F1220K3-F2R4 (UID: T618142072)	117	211	2000	49.0	88.2	24.5	2.51	152	133	380	93.37%		
THH6-18 F1315K3-F2R4 (UID: T618142073)	135	243	1500	41.4	74.4	21.2	3.44	208	100	380	92.91%	10.0	65
THH6-18 F1317K3-F2R4 (UID: T618142074)	134	241	1700	50.5	90.9	23.9	2.79	169	113	380	93.21%		
THH6-18 F1320K3-F2R4 (UID: T618142075)	129	232	2000	52.7	94.8	27.0	2.58	156	133	380	93.51%		
THH6-18 F1415K3-F2R4 (UID: T618142076)	143	257	1500	43.9	79.1	22.5	3.43	207	100	380	93.03%	10.7	67
THH6-18 F1417K3-F2R4 (UID: T618142077)	142	256	1700	48.7	87.6	25.3	3.07	186	113	380	93.30%		
THH6-18 F1420K3-F2R4 (UID: T618142010)	138	248	2000	61.5	110.7	28.9	2.36	143	133	380	93.63%		
THH6-18 F1515K3-F2R4 (UID: T618142078)	150	270	1500	47.1	84.8	23.6	3.35	203	100	380	93.12%	11.4	70
THH6-18 F1517K3-F2R4 (UID: T618142079)	149	268	1700	52.9	95.2	26.5	2.96	179	113	380	93.40%		
THH6-18 F1520K3-F2R4 (UID: T618142080)	147	265	2000	60.0	108.1	30.8	2.58	156	133	380	93.75%		
THH6-18 F1615K3-F2R4 (UID: T618142081)	159	286	1500	50.0	89.9	25.0	3.35	203	100	380	93.23%	12.1	75
THH6-18 F1617K3-F2R4 (UID: T618142082)	156	281	1700	58.8	105.9	27.8	2.79	169	113	380	93.49%		
THH6-18 F1620K3-F2R4 (UID: T618142083)	155	279	2000	64.9	116.9	32.5	2.51	152	133	380	93.84%		
THH6-18 F1715K3-F2R4 (UID: T618142084)	167	301	1500	50.8	91.5	26.2	3.46	209	100	380	93.32%	12.8	80
THH6-18 F1717K3-F2R4 (UID: T618142085)	163	293	1700	60.1	108.1	29.0	2.86	173	113	380	93.56%		
THH6-18 F1720K3-F2R4 (UID: T618142086)	162	292	2000	70.9	127.6	33.9	2.41	145	133	380	93.93%		
THH6-18 F1815K3-F2R4 (UID: T618142087)	177	319	1500	57.8	104.1	27.8	3.22	195	100	380	93.44%	13.5	85
THH6-18 F1817K3-F2R4 (UID: T618142088)	173	311	1700	59.5	107.1	30.8	3.06	185	113	380	93.65%		
THH6-18 F1820K3-F2R4 (UID: T618142022)	172	310	2000	70.2	126.4	36.0	2.58	156	133	380	94.05%		
THH6-18 F2015K3-F2R4 (UID: T618142089)	200	360	1500	60.5	108.9	31.4	3.48	210	100	380	93.66%	15.6	90
THH6-18 F2017K3-F2R4 (UID: T618142090)	195	351	1700	66.4	119.5	34.7	3.09	187	113	380	93.87%		
THH6-18 F2020K3-F2R4 (UID: T618142091)	192	346	2000	80.4	144.8	40.2	2.51	152	133	380	94.22%		
THH6-18 F2215K3-F2R4 (UID: T618142092)	225	405	1500	68.9	124.1	35.3	3.44	208	100	380	93.83%	17.0	95
THH6-18 F2217K3-F2R4 (UID: T618142093)	223	401	1700	78.1	140.5	39.7	3.01	182	113	380	94.08%		
THH6-18 F2220K3-F2R4 (UID: T618142023)	220	396	2000	89.8	161.7	46.1	2.58	156	133	380	94.43%		
THH6-18 F1915K3-F2R4 (UID: T618142094)	185	333	1500	59.7	107.4	29.1	3.30	199	100	380	93.8%	22.8	85
THH6-25 F1917K3-F2R4 (UID: T618142095)	180	324	1700	63.5	114.3	32.0	3.02	182	113	380	94.2%		
THH6-25 F1920K3-F2R4 (UID: T618142096)	175	315	2000	67.8	122.0	36.6	2.75	166	133	380	94.3%		
THH6-25 F2115K3-F2R4 (UID: T618142097)	215	387	1500	66.3	119.3	33.8	3.45	209	100	380	95.0%	25.7	92
THH6-25 F2117K3-F2R4 (UID: T618142098)	210	378	1700	71.3	128.4	37.4	3.13	189	113	380	95.5%		
THH6-25 F2120K3-F2R4 (UID: T618142099)	205	369	2000	86.7	156.1	42.9	2.51	152	133	380	95.6%		
THH6-25 F2415K3-F2R4 (UID: T618142100)	240	432	1500	72.3	130.2	37.7	3.53	213	100	380	95.0%	28.6	99
THH6-25 F2417K3-F2R4 (UID: T618142101)	235	423	1700	78.7	141.6	41.8	3.18	192	113	380	95.5%		
THH6-25 F2420K3-F2R4 (UID: T618142102)	228	410	2000	91.6	164.9	47.7	2.65	160	133	380	95.6%		
THH6-25 F2615K3-F2R4 (UID: T618142103)	265	477	1500	79.9	143.8	41.6	3.53	213	100	380	95.2%	31.5	106
THH6-25 F2617K3-F2R4 (UID: T618142104)	260	468	1700	88.3	158.9	46.3	3.13	189	113	380	95.8%		
THH6-25 F2620K3-F2R4 (UID: T618142105)	250	450	2000	104.4	187.9	52.4	2.55	154	133	380	95.9%		
THH6-25 F3115K3-F2R4 (UID: T618142106)	310	558	1500	100.0	180.0	48.7	3.30	119	100	380	95.2%	37.3	120
THH6-25 F3117K3-F2R4 (UID: T618142107)	305	549	1700	106.2	191.2	54.3	3.06	185	113	380	95.9%		
THH6-25 F3120K3-F2R4 (UID: T618142108)	333	599	2000	131.5	235	67	2.53	196	133.3	380	96.0%		

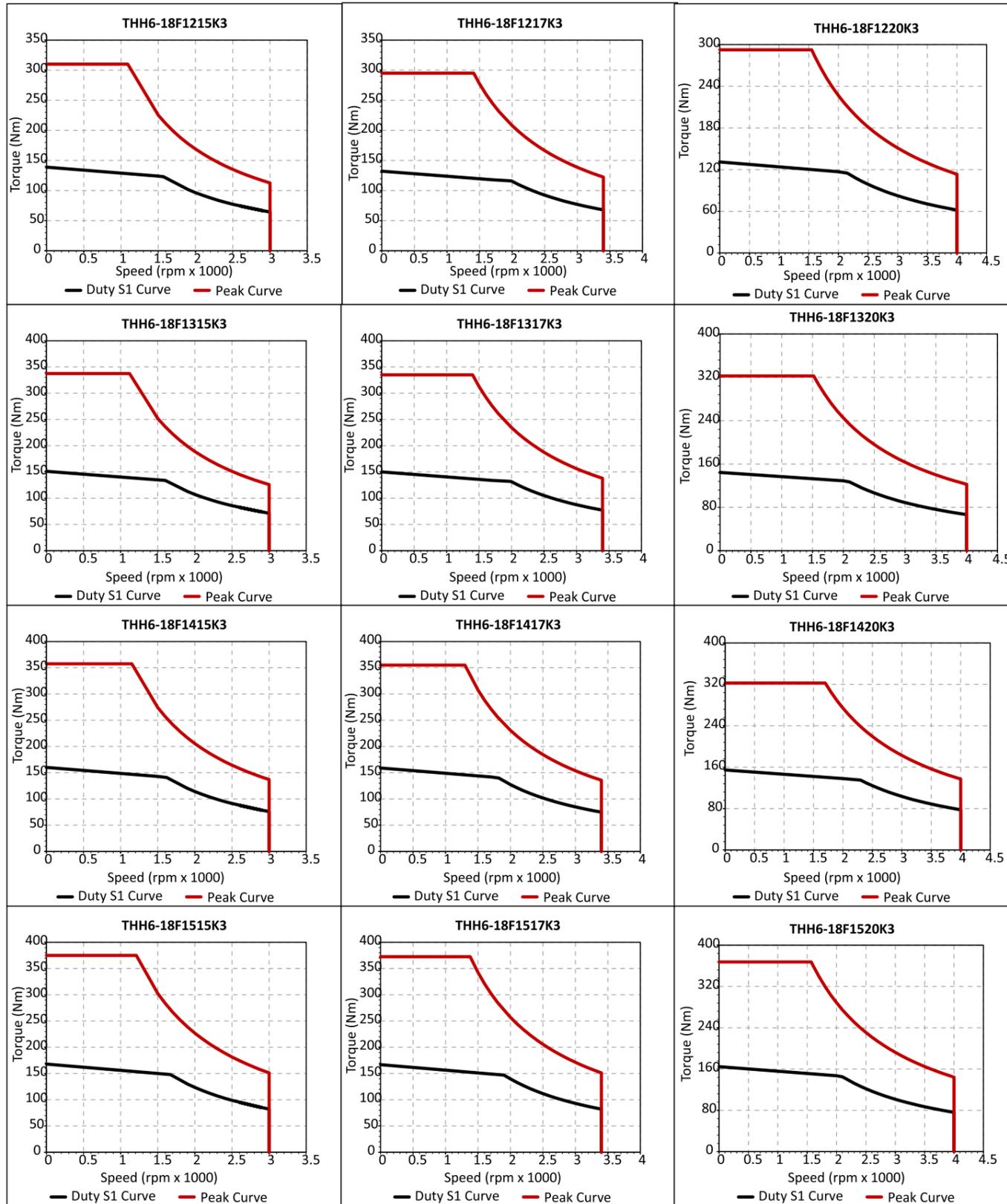
THH Series Performance Curves



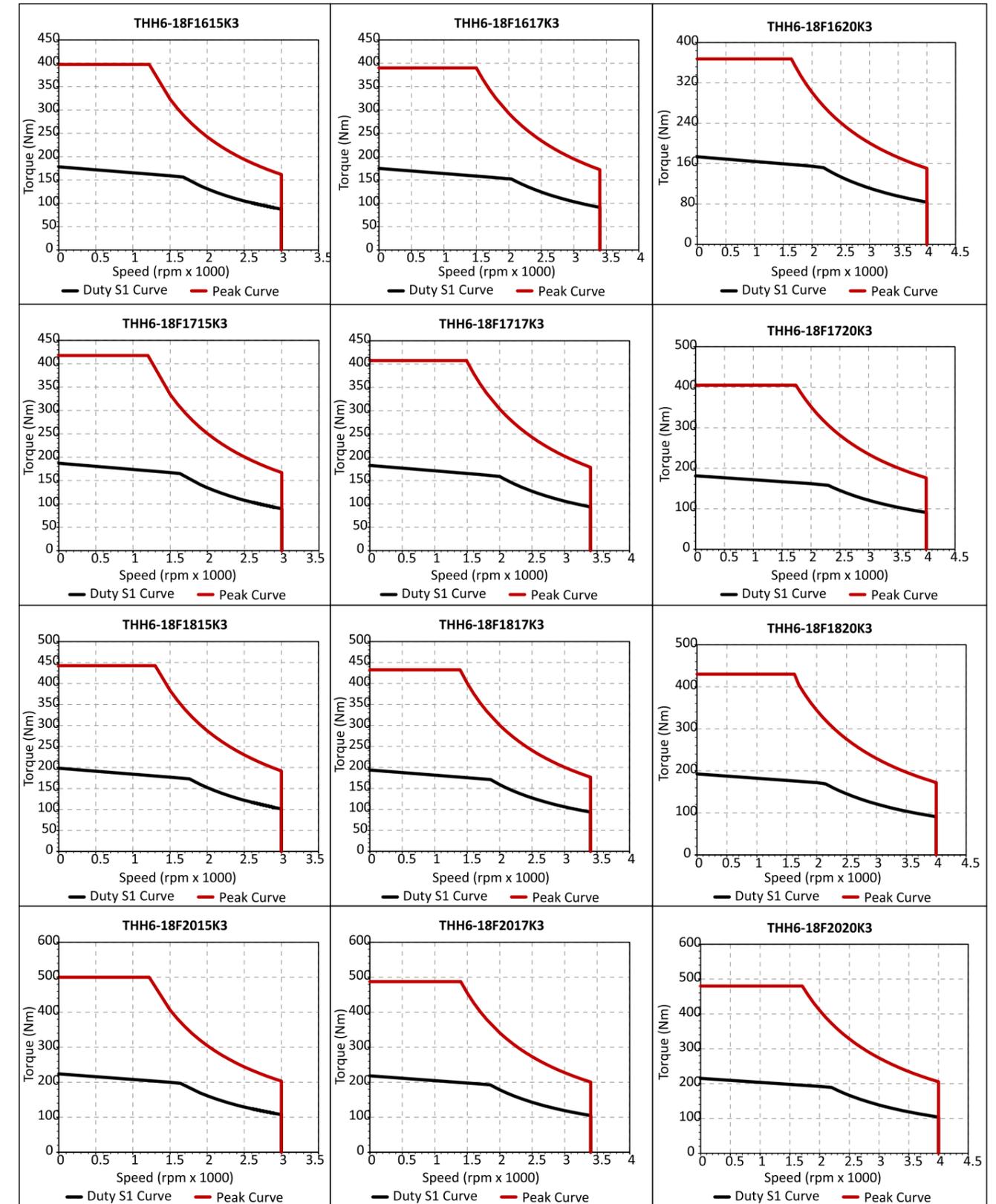
THH Series Performance Curves



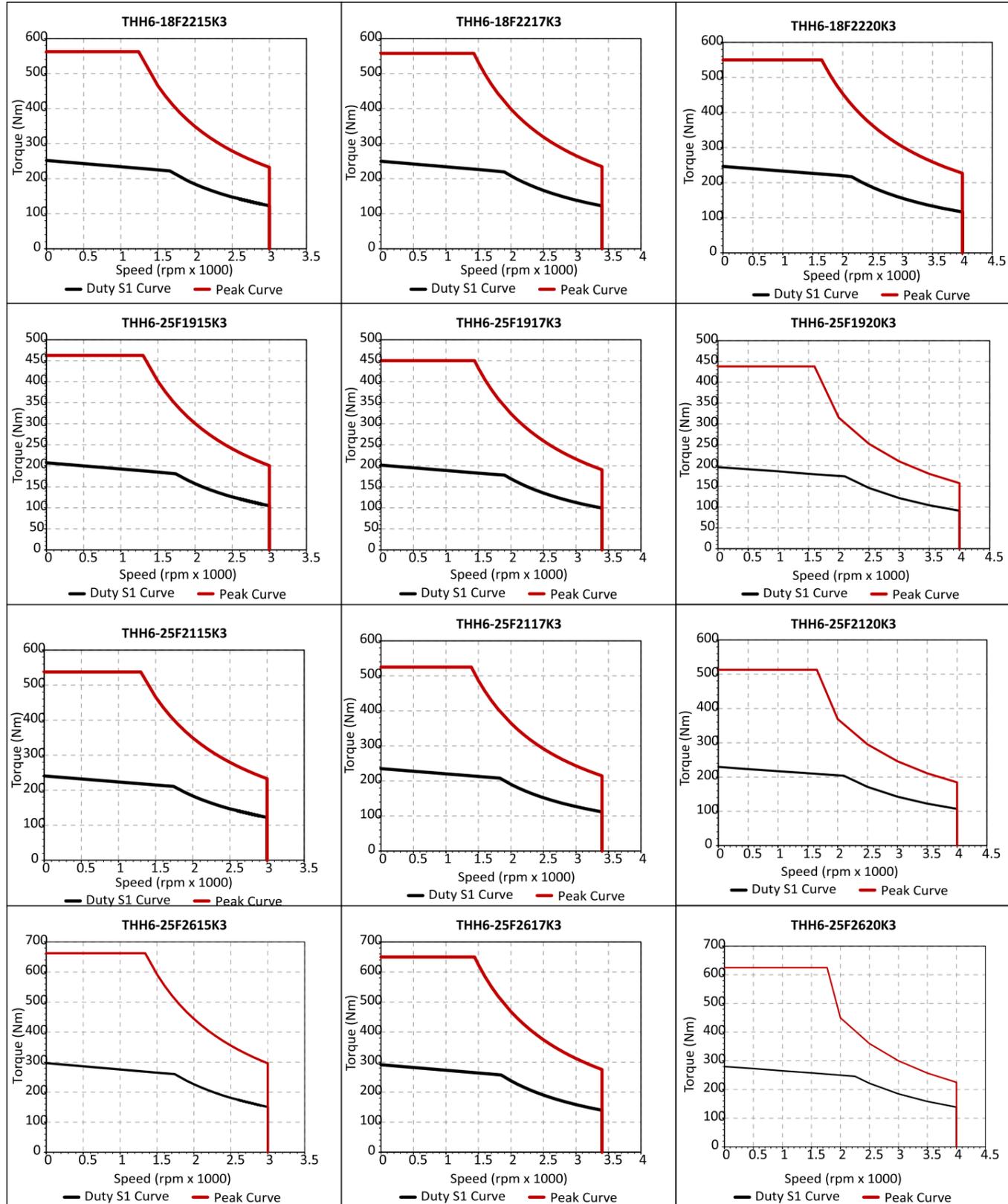
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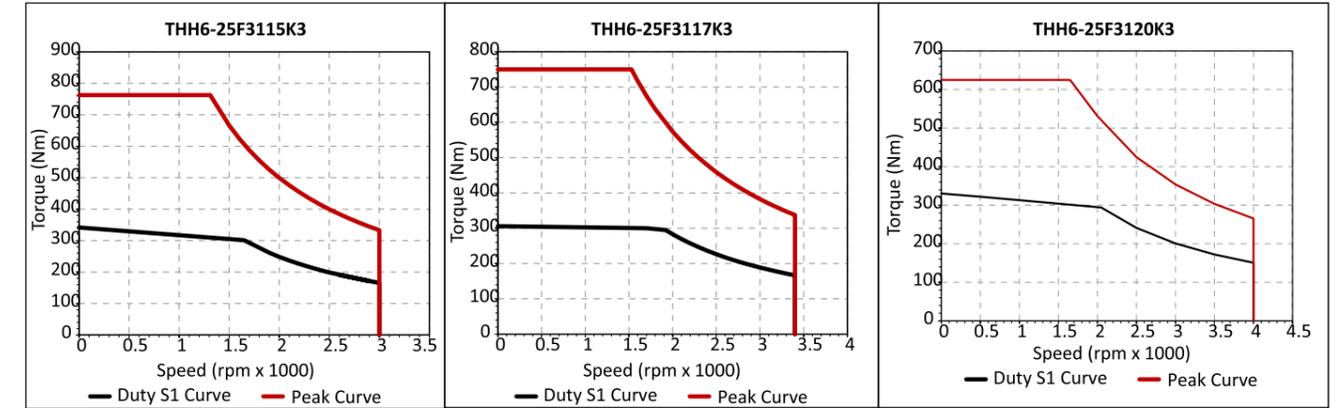
THH Series Performance Curves



THH Series Performance Curves



THH Series Performance Curves



Application Industries of Servo Motor

Plastic machinery >>>>>>> New Energy vehicle >>>>>>> Fluid machine >>>>>>> Transmission machinery



Injection Moulding Machine



Wind Power



Air Compressor



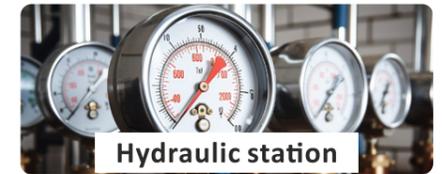
Refrigeration compressor



Extruder



Lithium battery



Hydraulic station

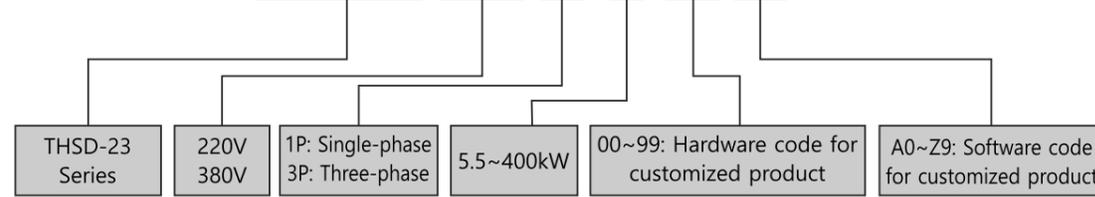


Vaccum pump



ORDERING DETAILS & TECHNICAL PARAMETERS

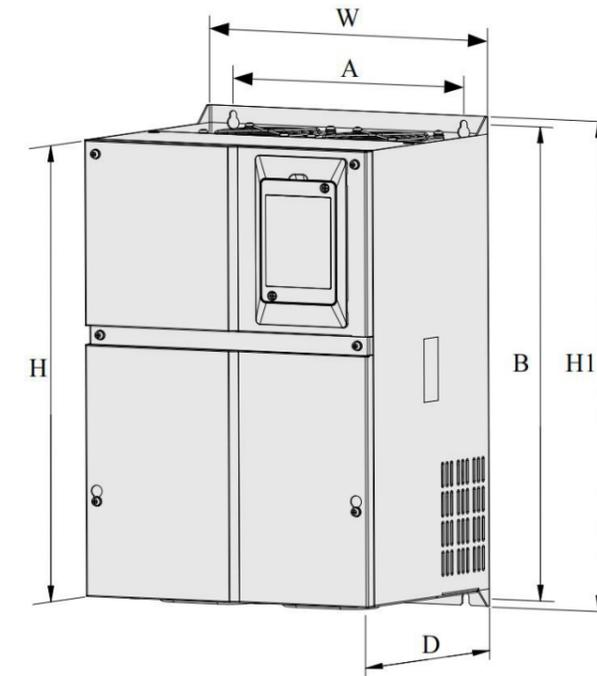
THSD-23-380V 3P 11- ** A*



Drive Model	Drive Input			Drive Output					Braking Resistor		Braking unit	DC Reactor	En-closure		
	Rated Input Voltage	Rated Input Current (A)	Power Capacity (kVa)	Rated Input Frequency	Power (kW)	Output Current (A)	Default Carrier Frequency (kHz)	over-load Capacity	Max. Output voltage (V)	Max. Output Frequency (Hz)				Recom. power (kW)	Recom. Resistance (Ω)
THSD-23-380V-3P5.5 UID: T618142032	Three Phase 380-440V	14.5	8.5	50-60 Hz	5.5	13.0	00	150% 1min & 120% 1h	380	500Hz	00	00	00	Not	IP20
THSD-23-380V-3P7.5 UID: T618142033		20.5	11.0		7.5	17.0	00				00	00			
THSD-23-380V-3P11 UID: T618142034		26.0	17.0		11	25.0	6				1.5	≥32	Built-in		
THSD-23-380V-3P15 UID: T618142035		35.0	21.0		15	32.0	4				1.5	≥32	Built-in		
THSD-23-380V-3P18.5 UID: T618142036		38.5	24.0		18.5	37.0	4				2.5	≥22	Built-in		
THSD-23-380V-3P22 UID: T618142037		46.5	30.0		22	45.0	4				2.5	≥22	Built-in		
THSD-23-380V-3P30 UID: T618142038		62.0	40.0		30	60.0	4				3	≥16	Built-in		
THSD-23-380V-3P37 UID: T618142039		76.0	57.0		37	75.0	4				4	≥16	Built-in		
THSD-23-380V-3P45 UID: T618142040		92.0	69.0		45	91.0	4				5	≥16	Built-in		
THSD-23-380V-3P55 UID: T618142041		113.0	85.0		55	112.0	3				6	≥16	Built-in		
THSD-23-380V-3P75 UID: T618142042		157.0	114.0		75	150.0	2				8	≥12	Built-in		
THSD-23-380V-3P90 UID: T618142043		180.0	134.0		90	176.0	2				11	≥8	Built-out		
THSD-23-380V-3P110 UID: T618142044		214.0	160.0		110	210.0	2				6*2	≥12*2	Built-out		
THSD-23-380V-3P132 UID: T618142045		256.0	192.0		132	253.0	2				7*2	≥8*2	Built-out		
THSD-23-380V-3P160 UID: T618142046	307.0	231.0	160	304.0	2	8.5*2	≥5*2	Built-out							

THSD-23 DRIVE INSTALLATION DIMENSIONS

DIMENSIONS IN MM



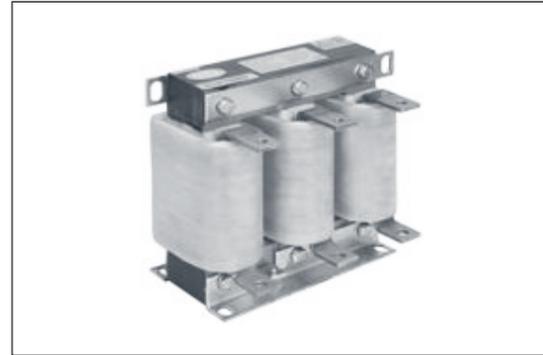
Model	Power (KW)	Rated current (A)	dimension (mm)				bolt (mm)		Installation hole dia. (mm)	packing box (mm)	N.W (KG)	G.W (KG)
			H	H1	W	D	A	B				
THSD-23-380V-3P5.5	5.5	13	248		160	183	148	236	5	30.5*21.5*25.5	3.22	3.6
THSD-23-380V-3P7.5	7.5	17	248		160	183	148	236	5	30.5*21.5*25.5	3.58	4.0
THSD-23-380V-3P11	11	25	322		208	192	190	305	6	41*29.5*28.5	5.04	5.8
THSD-23-380V-3P15	15	32	322		208	192	190	305	6	41*29.5*28.5	5.18	6.0
THSD-23-380V-3P18.5	18.5	37	322		208	192	190	305	6	41*29.5*28.5	5.44	6.2
THSD-23-380V-3P22	22	45	322		208	192	190	305	6	41*29.5*28.5	6.1	6.9
THSD-23-380V-3P22	22	45	432	463	285	228	235	447	6.5	56*38*33	15	16.5
THSD-23-380V-3P30	30	60	432	463	285	228	235	447	6.5	56*38*33	15.32	16.8
THSD-23-380V-3P37	37	75	432	463	285	228	235	447	6.5	56*38*33	16.36	17.8
THSD-23-380V-3P45	45	91	549	600	385	265	260	580	10	610*415*300	27.62	33.7
THSD-23-380V-3P55	55	112	549	600	385	265	260	580	10	610*415*300	27.96	34.0
THSD-23-380V-3P75	75	150	549	600	385	265	260	580	10	610*415*300	31	37.1
THSD-23-380V-3P90	90	176	660	700	473	307	343	678	10	750*515*335	42.16	50.2
THSD-23-380V-3P110	110	210	660	700	473	307	343	678	10	750*515*335	42.74	50.7
THSD-23-380V-3P132	132	253	880	930	579	380	449	903	10	960*600*400	78.16	94.5
THSD-23-380V-3P160	160	304	880	930	579	380	449	903	10	960*600*400	80.1	96.4

= Plastic Shell
 = Sheet Metal

Input AC Reactor

Product Profile

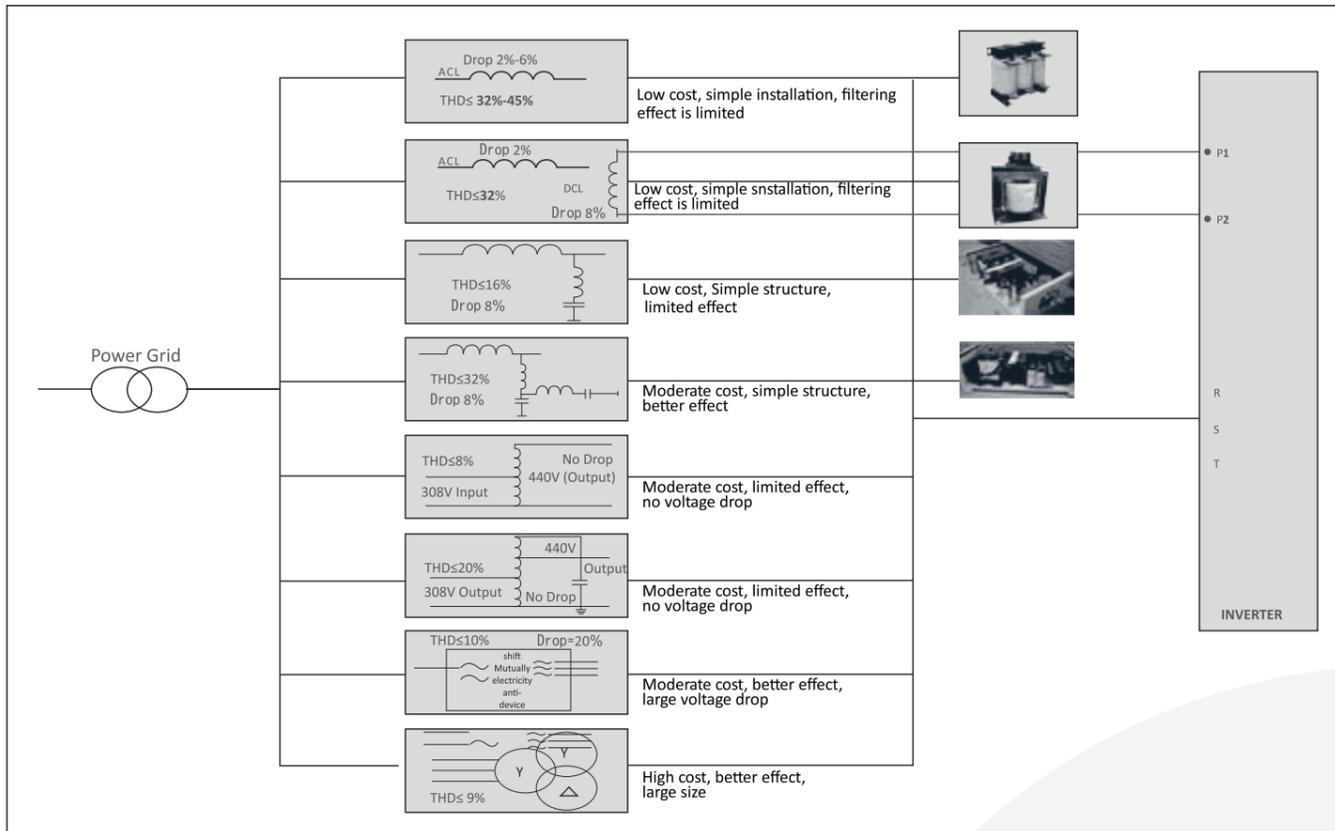
Input AC Reactor is applied at the AC drive input side to suppress inrush voltage, designed to reduce inrush & peak current, improve the real power factor, restrain the grid harmonics and improve the input current waveform.



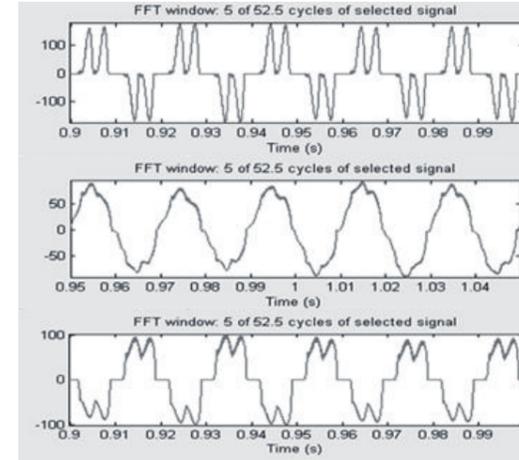
Product Features

Input AC Reactor: Due to the excellent foil winding structure, Input AC Reactor is characterized by small DC resistance, strong resistance to electromagnetic force and strong short-time overload capability. F Class insulation materials equip the products with reliable performance even in harsh operating conditions; designed with low magnetic flux density, the reactor is of high linearity and powerful overload capacity. Moreover, combined with VPI process, the reactor noise is low; With the core made of grain-oriented cold rolled silicon steel sheets, the reactor boasts high efficiency, low core loss and low temperature rise.

Solutions to the inverter input side



Inverter input current waveform

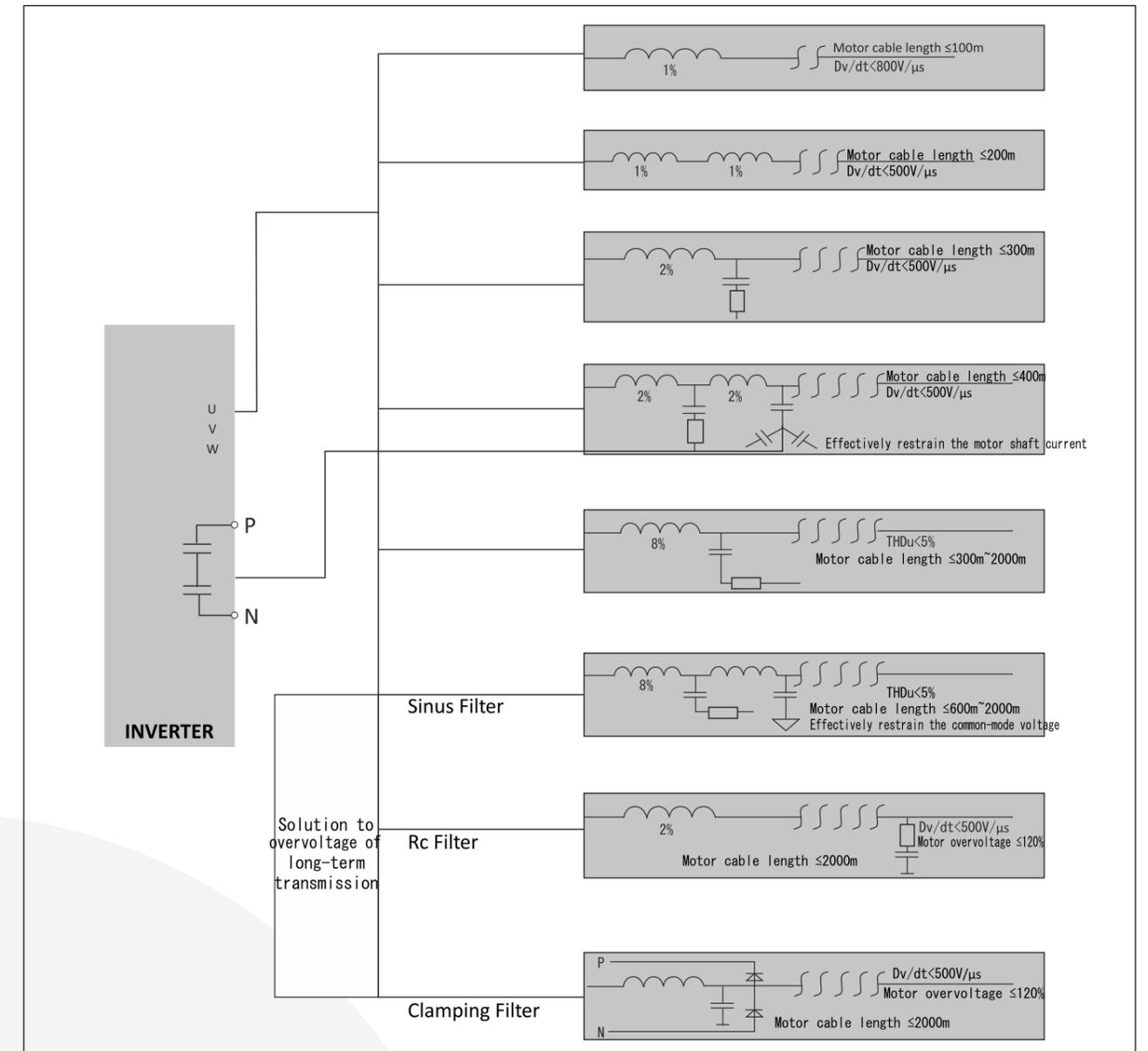


Conventional Inverter input current waveform

The inverter input current waveform with Harmonic Filter

The inverter input current waveform with Input Reactor

Solution to the inverter output side

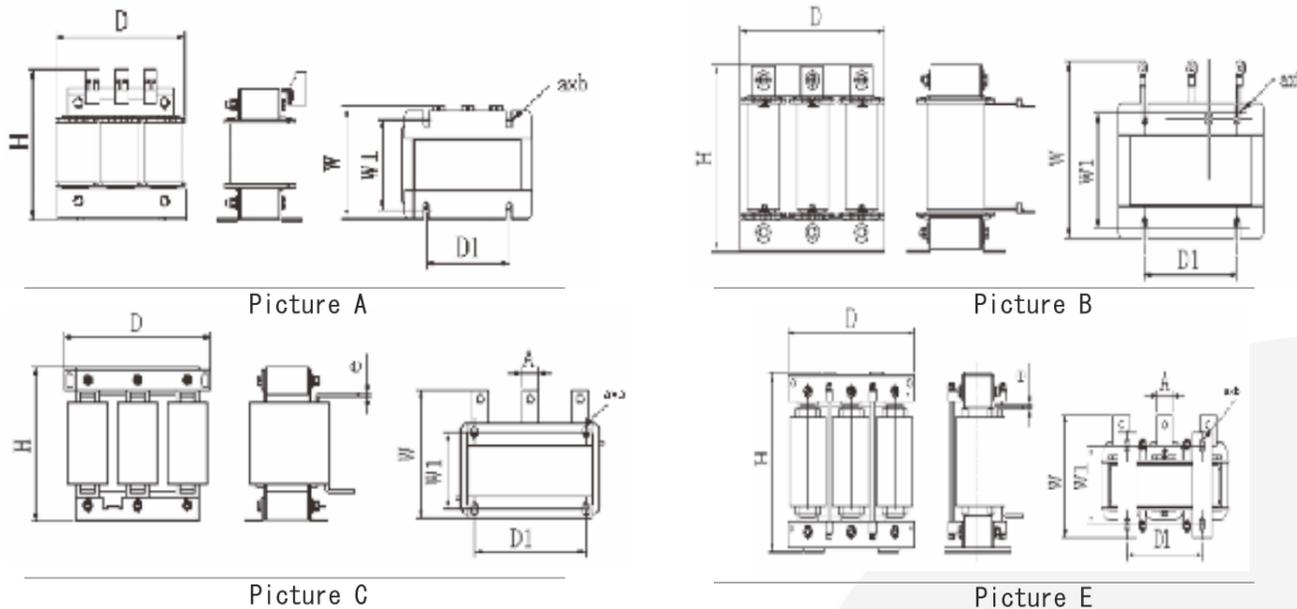


380V Input AC Reactor Selection Table

No	Power (kW)	Rated current (A)	Inductance value (mH)	Voltage drop	Insulation class	Reactor type	Picture No.	Product specifications						
								D*H*W (mm)	D1*W1 (mm)	a*b (mm)	∅c (mm)	A*e (mm)	Material	Weight (kg)
1	1.5	5	2.8	2%	F	ACL-0005-EISC-E2M8C (UID:T618142109)	A	110*130*95	91*65	6*11	/	/	Cu	2.4
2	2.2	7	2.0	2%	F	ACL-0007-EISC-E2M0C (UID:T618142110)		110*130*95	91*65	6*11	/	/	Cu	2.5
3	3.7	10	1.4	2%	F	ACL-0010-EISC-E1M4C (UID:T618142111)		110*130*95	91*65	6*11	/	/	Cu	2.6
4	5.5	15	0.93	2%	F	ACL-0015-EISL-EM93C (UID:T618142112)		125*135*95	40*64	6*9	/	/	Cu	3.3
5	7.5	20	0.7	2%	F	ACL-0020-EISL-EM70C (UID:T618142113)		125*135*95	40*64	6*9	/	/	Cu	3.3
6	11	30	0.47	2%	F	ACL-0030-EISL-EM47C (UID:T618142114)	B	200*125*116	120*72	8.5*20	/	/	Cu	4.9
7	15	40	0.35	2%	F	ACL-0040-EISL-EM35C (UID:T618142115)		200*125*116	120*72	8.5*20	/	/	Cu	4.9
8	18.5	50	0.28	2%	F	ACL-0050-EISL-EM28C (UID:T618142116)		200*160*120	120*72	8.5*20	/	/	Cu	5.9
9	22	60	0.24	2%	F	ACL-0060-EISL-EM24C (UID:T618142117)		200*150*120	120*72	8.5*20	/	/	Cu	5.9
10	30-37	90	0.16	2%	F	ACL-0090-EISL-EM16C (UID:T618142118)		200*160*120	120*72	8.5*20	/	/	Cu	6.9
11	45	120	0.12	2%	F	ACL-0120-EISL-EM12C (UID:T618142119)	C	200*140*155	120*72	8.5*20	/	/	Cu	10
12	55	150	0.095	2%	F	ACL-0150-EISL-E95UC (UID:T618142120)		195*210*160	120*92	8.5*20	11	25*6	AL	14
13	75	200	0.070	2%	F	ACL-0200-EISL-E70UC (UID:T618142121)		195*220*170	120*102	8.5*20	11	25*6	AL	16
14	90-110	250	0.056	2%	F	ACL-0250-EISH-E56UC (UID:T618142122)		250*230*170	182*96	11*18	11	25*6	AL	18
15	132	290	0.048	2%	F	ACL-0290-EISH-E48UC (UID:T618142123)		250*230*180	182*96	11*18	12	30*6	AL	21
16	160	330	0.042	2%	F	ACL-0330-EISH-E42UC (UID:T618142124)	E	250*235*190	182*106	11*18	12	30*6	AL	22
17	185	390	0.036	2%	F	ACL-0390-EISH-E36UC (UID:T618142125)		290*250*185	214*100	11*18	12	30*6	AL	25
18	220	490	0.028	2%	F	ACL-0490-EISH-E28UC (UID:T618142126)		300*280*205	214*110	11*18	13	40*8	AL	33
19	250	530	0.026	2%	F	ACL-0530-EISH-E26UC (UID:T618142127)		300*280*205	214*110	11*18	13	40*8	AL	42
20	280	600	0.023	2%	F	ACL-0600-EISH-E23UC (UID:T618142128)		300*280*230	214*130	11*18	13	40*8	AL	42
21	300	660	0.021	2%	F	ACL-0660-EISH-E21UC (UID:T618142129)	300*280*230	214*130	11*18	13	40*8	AL	45	
22	380	800	0.017	2%	F	ACL-0800-EISH-E17UC (UID:T618142130)	330*350*235	243*132	12*20	2*12	60*8	AL	55	
23	450	1000	0.014	2%	F	ACL-1000-EISH-E14UC (UID:T618142131)	330*385*250	243*132	12*20	2*12	60*10	AL	56	
24	550	1250	0.011	2%	F	ACL-1250-EISH-E11UC (UID:T618142132)	330*425*275	243*157	12*20	2*12	60*10	AL	76	
25	800	1600	0.0087	2%	F	ACL-1600-EISH-E8U7C (UID:T618142133)	395*430*330	275*175	12*20	4*12	60*12	AL	113	

Parameters are for reference only. If you have any questions, contact our sales department please.
Information about the parameters is subject to change without notice.

Product Size



Aluminum Enclosure Resistor



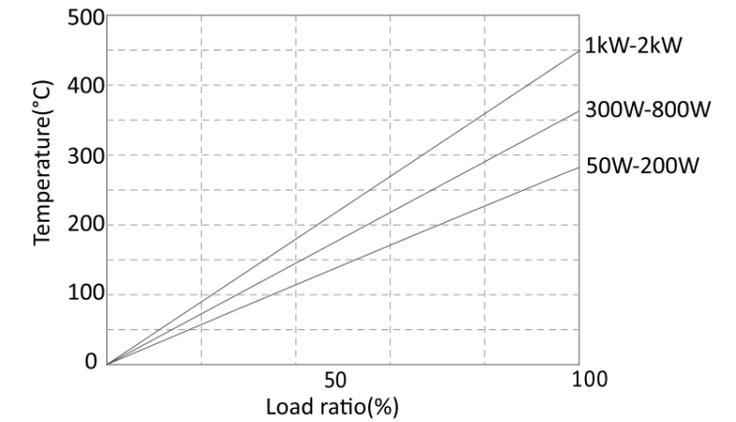
Product Profile

RXLG series resistors are superior to conventional ceramic-skeleton resistors in terms of weatherproof, oscillation-resistant and safety, and are widely applied to electrical circuits demanding high adaptability to bad industrial operating conditions such as power supply, inverters and servo systems. They can be easily fixed in an airtight manner and with an additional radiator. With neat appearance, it is an ideal auxiliary product for power and electronic products.

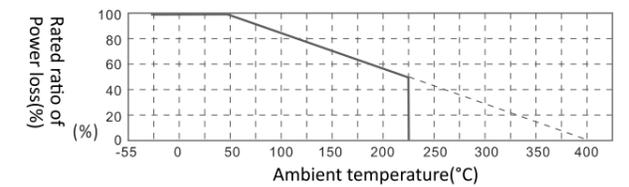
Product Features

- Rated power range: 60W-2000W
- Operating voltage range: <1.2kV
- Rated resistance range: 1R-10kR
- Dielectric strength: AC3KV 50Hz/5s
- IP rating: IP00/IP33
- Vibration: 1.5g
- Temperature coefficient: ≤400ppm/°C
- Element material: Fe-Cr-Al alloy
- Advantage: for harsh environment
- Disadvantage: low operating voltage

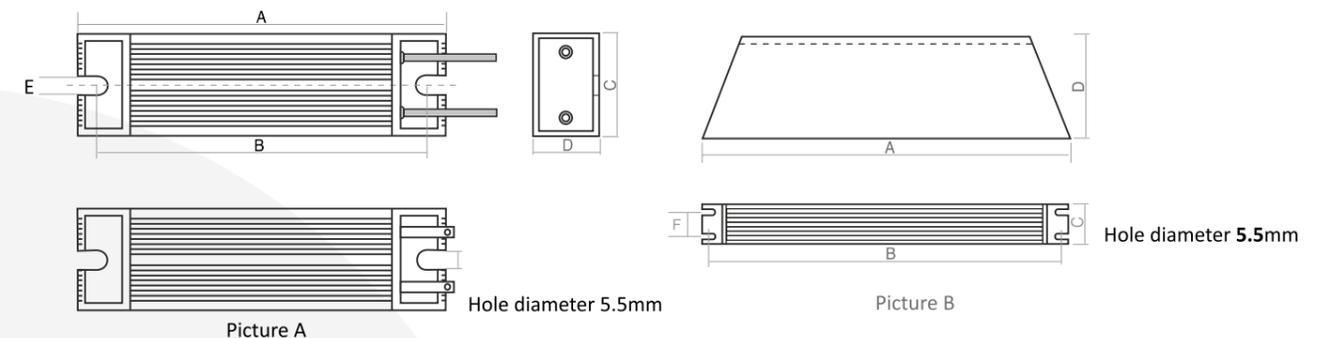
Product Features



Detailing Curve



Product Size



Aluminum Enclosure Resistor

Product Size

Type	Rated power(W)	Product picture	Dimension(mm)						Connecting wire(mm)	Lead length (mm)	Terminal	Weight(Kg)	Resistance range(Ω)	Connection	Product UID
			A	B	C	D	E	F							
RXLG	60	Picture A	115	98	40	20	5.6		1.5	500	2-5S	0.165	1Ω-10KΩ	Cable	T618142134
RXLG	80		140	123	40	20	5.6		1.5	500	2-5S	0.2	1Ω-10KΩ		T618142135
RXLG	100		165	148	40	20	5.6		1.5	500	2-5S	0.24	1Ω-10KΩ		T618142136
RXLG	120		190	173	40	20	5.6		1.5	500	2-5S	0.28	1Ω-10KΩ		T618142137
RXLG	150		215	198	40	20	5.6		1.5	500	2-5S	0.32	1Ω-10KΩ		T618142138
RXLG	200		165	147	60	30	5.6		1.5	500	2-5S	0.464	1Ω-10KΩ		T618142139
RXLG	300		215	197	60	30	5.6		1.5	500	2-5S	0.62	1Ω-10KΩ		T618142140
RXLG	400		265	247	60	30	5.6		1.5	500	2-5S	0.8	1Ω-10KΩ		T618142141
RXLG	500		335	317	60	30	5.6		1.5	500	2-5S	1.03	1Ω-10KΩ		T618142142
RXLG	800		400	382	61	59		40.5	5.5	1.5	500	M6	2.2		1Ω-10KΩ
RXLG	1000	400	384	50	107		30	5.5	4	500	M6	3.6	5Ω-10KΩ	T618142144	
RXLG	1200	450	434	50	107		30	5.5	4	500	M6	4	5Ω-10KΩ	T618142145	
RXLG	1500	485	469	50	107		30	5.5	4	500	M6	4.35	5Ω-10KΩ	T618142146	
RXLG	2000	550	534	50	107		30	5.5	4	500	M6	4.9	5Ω-10KΩ	T618142147	

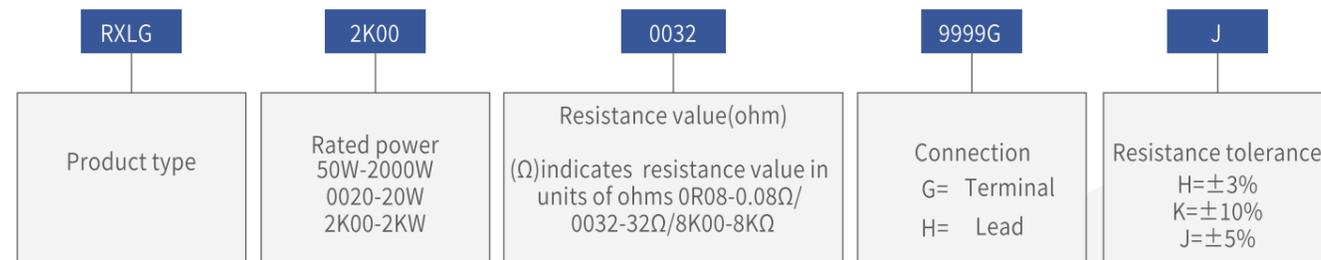
ROHS request should be noted in the orders.(For other parameter requirements, please consult our salespeople)

Parameters are for reference only. If you have any questions, contact our sales department please. Information about the parameters is subject to change without notice.

Mechanical And Electrical Properties

Property	Inspection method	Performance requirements	Test method
Constant humidity-heat	Temperature 40°C,RH(90-95)% 96h	$R \leq \pm(5\% \pm 0.05\Omega)$	GB5729.2.24
Temperature change	-55°C to +55°C,3 Circes	$R \leq \pm(2\% \pm 0.05\Omega)$	GB5729.4.19
Transient overload	10 Time Pr 5s	No visible destruction $R \leq \pm(1\% \pm 0.05\Omega)$	GB5729.4.13
Insulation resistance	DC 1000V	$R \geq 100M\Omega$	GB5729.4.6
Voltage resistibility	AC3000V 50Hz 5s	Free of breakage or flying arc	GB5729.4.7
Life	25°C Ur 1000h	$R \leq 20\%$	
Terminal strength	45N 30S	Free of visible destruction	GB5729.4.16
Vibration resistibility	f:5-200HZ a=1g X.Y.Z 2h each	$R \leq \pm(1\%R + 0.05\Omega)$ Free of visible destruction	GB5729.4.22

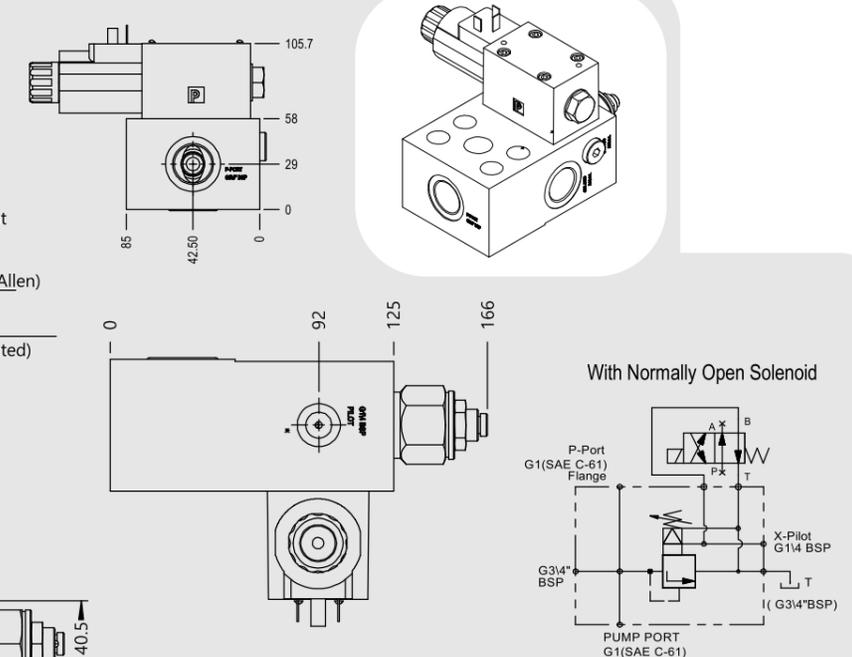
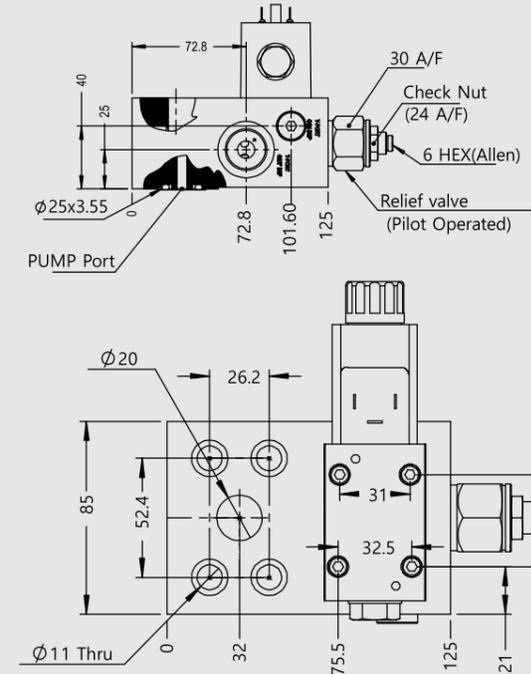
Mechanical And Electrical Properties



RXLG.2K00.0032.9999G: 9999G means standard product, 2kW/32R Aluminum Enclosure Resistor

RXLG.2K00.0032.6218A: 6218A means customer code, customer non-standard product 2kW/32R Aluminum Enclosure Resistor

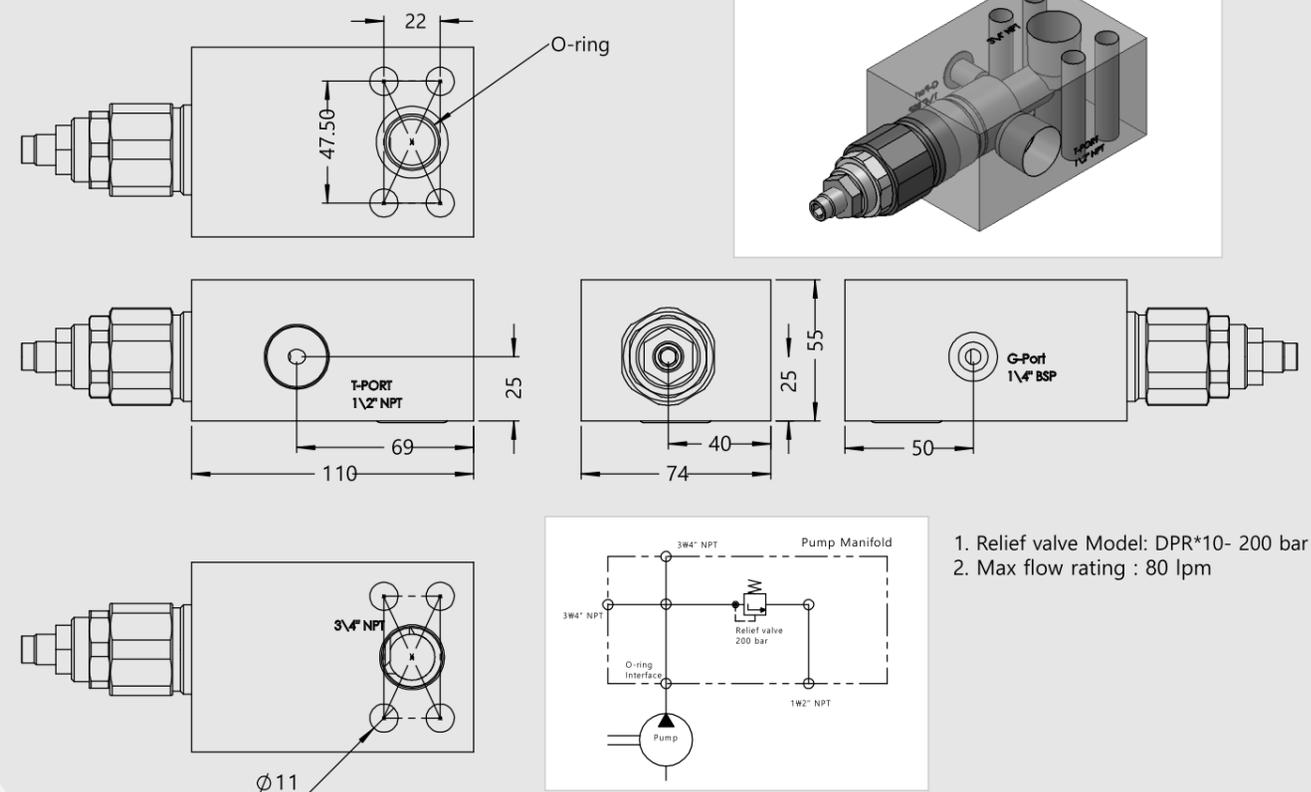
Pressure Relief Valve Pilot Operated Cartridge



TECHNICAL SPECIFICATIONS :

1. Relief valve rated pressure: 315 bar
2. Max flow rating of relief Valve is 200lpm, But Rated flow for manifold to be per port size.
3. Mounting Bolt M10 x 60 length, 4 qty
4. Interface Seal : 25x3.55 O-ring
5. Manifold material: Steel / CI

Pressure Relief Valve Direct Operated



1. Relief valve Model: DPR*10- 200 bar
2. Max flow rating : 80 lpm

IGP-Internal Gear Pump

IGP1: 8~25 cc/rev, IGP2: 25~63cc/rev, IGP3: 80~200 cc/rev.
Maximum Operating pressure up to 315 Bar

- High Pressure
- Suitable for 3000 rpm
- For Servo Applications



INLET & OUTLET PORT SAE FLANGES

SIZES: G3/4, G1, G1 1/4, G1 1/2, G2, G2 1/2, G3

IGP-02T Series Model Code wise Spigot & Port details

Model Code	Sizes	Spigot	Shaft Dia.	Suction (S)	Suction Flange Sizes	Delivery (P)	Delivery Flange Sizes	UID
IGP1-08-02T/R-PVS	8	Ø82.55	Ø20	Ø20	G3/4(C-61)	Ø13	G1/2(C-61)	T008010106
IGP1-10-02T/R-PVS	10	Ø82.55	Ø20	Ø20	G1(C-61)	Ø13	G1/2(C-61)	T010010113
IGP1-13-02T/R-PVS	13	Ø82.55	Ø20	Ø20	G1(C-61)	Ø13	G1/2(C-61)	T013010123
IGP1-16-02T/R-PVS	16	Ø82.55	Ø20	Ø20	G1(C-61)	Ø13	G1/2(C-61)	T016010133
IGP1-20-02T/R-PVS	20	Ø82.55	Ø20	Ø26	G1 1/4(C-61)	Ø20	G3/4(C-61)	T020010143
IGP1-25-02T/R-PVS	25	Ø82.55	Ø20	Ø26	G1 1/4(C-61)	Ø20	G3/4(C-61)	T025010156
IGP2-25-02T/R-PVS	25	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø18	G3/4(C-61)	T025010154
IGP2-32-02T/R-PVS	32	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø18	G3/4(C-61)	T032010166
IGP2-40-02T/R-PVS	40	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T040010177
IGP(H)2-40-02T/R-PVS	40	Ø101.6	Ø25	Ø38	G1 1/2(C-61)	Ø20	G1(C-61)	T040010174
IGP2-50-02T/R-PVS	50	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T050010188
IGP(H)2-50-02T/R-PVS	50	Ø101.6	Ø25	Ø51	G2(C-61)	Ø25.4	G1 (C-62)	T050010184
IGP2-63-02T/R-PVS	63	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T063010198
IGP(H)2-63-02T/R-PVS	63	Ø101.6	Ø25	Ø51	G2(C-61)	Ø32	G1 1/4 (C-62)	T063010195
IGP3-80-02T/R-PVS	80	Ø152.4	Ø40	Ø51	G2(C-61)	Ø32	G1 1/2(C-61)	T080010206
IGP3-100-02T/R-PVS	100	Ø152.4	Ø40	Ø51	G2(C-61)	Ø32	G1 1/2(C-61)	T010010105
IGP(H)3-100-02T/R-PVS	100	Ø152.4	Ø40	Ø64	G2 1/2(C-61)	Ø32	G1 1/2(C-61)	T010010104
IGP3-125-02T/R-PVS	125	Ø152.4	Ø40	Ø64	G2 1/2(C-61)	Ø38	G1 1/2 (C-62)	T012501105
IGP3-145-02T/R-PVS	145	Ø152.4	Ø40	Ø64	G2 1/2(C-61)	Ø38	G1 1/2 (C-62)	T014501103
IGP(H)3-145-02T/R-PVS	145	Ø152.4	Ø40	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T014501101
IGP3-160-02T/R-PVS	160	Ø152.4	Ø40	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T016001103
IGP3-200-02T/R-PVS	200	Ø152.4	Ø40	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T020011001

Note:-

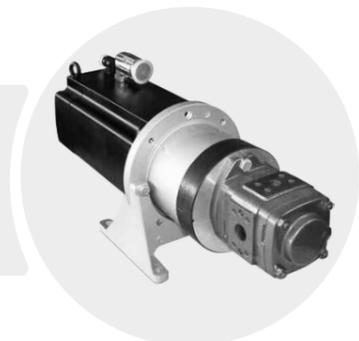
1. = larger suction & delivery ports
2. The model code/UID shown above which are not shaded can be considered as 01T series for reference purpose only.
3. 02T Series pumps are all suitable for 3000 RPM.
4. 02T Series pumps are suitable for high pressure range than 01T series.

Information of Flanges:

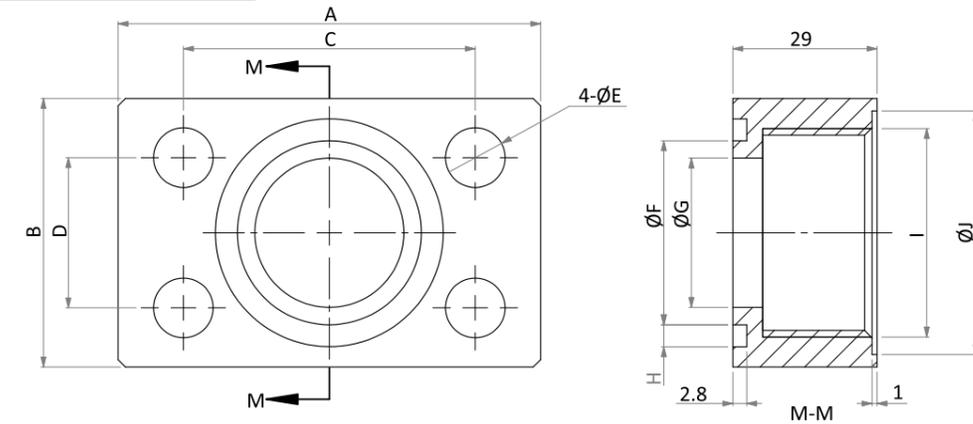
1. SAE Flanges code 61 = C-61
2. SAE Flanges code 62 = C-62

Servo Motor & Pump Assembly

"By replacing induction motors with servo motor in hydraulic pump, machine manufacturer and end users can reap significant energy savings."

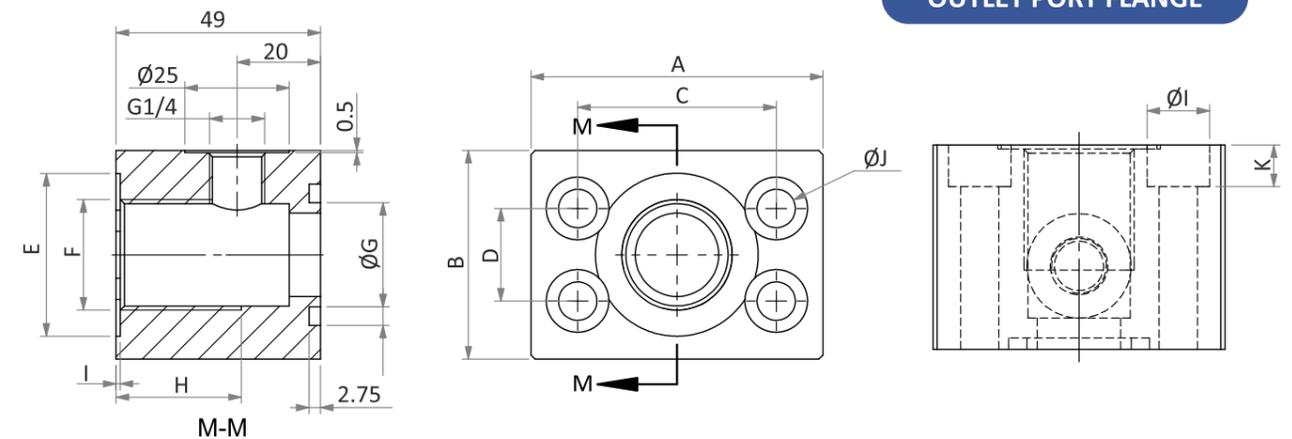


INLET PORT FLANGE



Size	Dimensions										PUMPS	UID
	A	B	C	D	E	F	G	H	I	J		
DL3/4	70	50	47.6	22.2	12	26.8	20	4	G3/4	33	IGP1-08	T000200145
DL1	75	50	52.4	26.2	12	32.5	25	4.4	G1	41	IGP1-10/13/16	T000200146
DL1 1/4	85	54	58.7	30.2	12	37	30	4.4	G1 1/4	51	IGP1-20/25 IGP2-25/32/40 /50/63	T000200147
DL2	105	75	77.8	42.9	14	57	49	4.4	G2	69	IGP3-80/100	T000200148
DL2 1/2	115	93	88.9	50.8	14	72	63	4.4	G2 1/2	83	IGP3-125/145	T000200149
DL3	138	105	106.4	61.9	18	82	76	5	G3	98	IGP3-160	T000200150

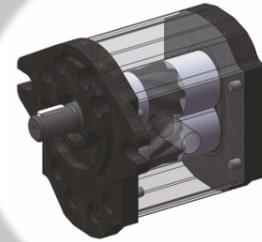
OUTLET PORT FLANGE



Size	Dimensions											PUMPS	UID
	A	B	C	D	E	F	G	H	I	J	K		
DL1/2	60	40	38.1	17.6	28	G1/2	20	21	15	9.2	10	IGP1-08/10/13/16	T000200151
DL3/4	70	50	47.6	22.2	39	G3/4	27	30	18	11.8	10	IGP1-20/25, IGP2-25/32	T000200152
DL1	75	50	52.4	26.2	42.3	G1	32.5	35	18	12	12	IGP2-40/50/63	T000200153
DL1 1/4	95	70	69.9	35.7	59	G1 1/4	47.5	35	20	13.7	14	IGP3-80/100	T000200154
DL1 1/2	115	70	79.4	36.5	62	G1 1/2	48.5	35	26	18	18	IGP3-125/145/160	T000200155

TGR Series

Helical Silent gear pump
 Max. Continuous pressure upto 270 bar
 Max. Peak pressure upto 300 bar



Performance Parameters

Type	Displacement code	Displacement (cm ³ /rev)	Flow rate(*) (L/min)	Pressure performance(**)			Noise level dB(A)at 150 bar	
				Continous work Pressure (bar)	Intermittent work Pressure (bar)	Peak work Pressure (bar)		
Category 1	TGR28	4	4.2	6	275	280	300	55
		6	6.4	9.2	275	280	300	55
		8	8.3	12	246	260	280	55
		10	10.2	14.7	222	250	270	55
		13	12.9	18.6	176	230	250	55
Category 2	TGR33	10	10.1	14.5	275	280	300	55
		13	12.6	18.1	265	270	290	55
		15	15.2	21.8	241	250	270	55
		18	18.2	26.1	206	250	270	55
	TGR38	16	15.9	22.8	265	280	300	55
		18	17.9	25.8	247	260	280	55
		20	20	28.8	230	250	270	55
		22	22.1	31.8	222	240	260	55
		25	25.2	36.2	200	210	220	55
		28	29.3	40.7	180	190	200	55
Category 3	TGR47	28	28	40.3	270	280	300	57
		32	32.2	46.3	252	270	280	57
		36	36.3	52.3	239	250	270	57
		40	40.5	58.3	225	250	270	57
		45	45.1	65	213	250	270	57
	TGR55	50	50.3	72.4	202	250	270	57
		50	50.5	72.7	275	280	300	57
		63	63.5	91.4	249	260	280	57
		75	75	108.1	229	250	270	57
Category 4	TGR72	90	90.9	130.9	178	240	260	57
		94	94.1	136	240	250	260	57
		101	101.45	147	230	240	250	57
		125	125.5	181	220	220	230	57
		150	150.9	218	200	210	220	57
		175	175	253	180	190	200	57
200	200.4	290	160	170	180	57		

The flow rate was calculated at 1500rpm with 96% volume efficiency.
 The intermittent work pressure time is 20 second, peak pressure last time is 1 second.

Technical Data

Type	TGR series
Models	TGR28 - TGR33 - TGR38 - TGR47 - TGR55 - TGR72
Flanges	Cast Iron
Connections	fl GAS –thread or SAE 3000/6000 welding ange
Installation position	Any place
Shaft rotation	Clockwise (from shaft end) for counter clockwise please contact us
Shaft speed	0~ 3600 rpm
Flows	From 0 up to 400L/min (at 1.500 rpm)
Operation Pressure	Max. Continuous: 270 bar, Max. Cycle ON/OFF: 280 bar, Max. Peak: 300 bar
Inlet Pressure	0,8 - 2 bar (Option for 10Bar)
Fluids	Machine oil, Crude oil, diesel oil, Synthetic fluid or emulsion, water-oil emulsion 40% of volume, Lubrication high viscosity oils, Special synthetic fluid, Fuel oil and other fluids on request
Viscosity	1 ~10000mm ² /s
Environment temperature	From -15° up to +60°C
Hydraulic Temperature	From -20°C up to +80°C
Filtration	Inlet Port: 100µm, Outlet Port: from 25 to 10 µm
Seals type	NBR, VITON, FPM, EPDM - Special on request
Pump body	Extruded aluminum alloy
Noise level	From 52 up to 68 dB(A) at 2.950 rpm (value based on ISO 4412 test procedure)
Pump body	Extruded aluminum alloy(Cast on request)
Helical	Case hardened grinded steel
Maintenance	Detail manuals for Request

Standard Model Codes

Model Codes	Product UID
TGR382C020CCFSAEACGDY	T014511850
TGR382C025CCFSAEACGDY	T014511851
TGR472C032CCFSAEBACODX	T014511661
TGR472C040CCFSAEBACODX	T014511662
TGR472C025CCFSAEBACODX	T014511660
TGR472C045CCFSAEBACODX	T014511663
TGR472C050CCFSAEBACODX	T014511664
TGR552C050CCFSAEBACOEDX	T014511773
TGR552C063CCFSAEBACOEDX	T014511774
TGR552C075CCFSAEBACOEDX	T014511775

* Any other requirement please contact THM

VPS1,2,3 Series

Fixed Displacement Servo Vane Pump
 Displacement: 16 to 180cc/rev
 Max. operating pressure: 245 bar - 280 bar
 Max. speed : 2200 - 2800 rpm



Features:

- The construction of the pump incorporates a leakage line help reducing the pump holding temperature and enhancing the life and the stability of the pump.
- The design enables the pump to perform at low speed and high pressure.
- Low operating noise,
- Wide spread range up to 2800 rpm, Minimum rpm not less than 80.
- Better resistance to oil contamination.
- Wide range to displacement 16cc - 180cc/rev (200cc/rev under testing).
- Pressure up to 280 bar.
- Cartridge assembly replacement available as spares.
- This pump is specially designed for servo system application offering fast and low speed, with excellent response to switching.
- Also the pump is widely suitable for mobile applications offering pressure and flow under low engine rpm.

General details

Mounting style	Flange mounting to SAE J744
Pipe connections	SAE fange version (Metric threads)
Direction of rotation	Clockwise and anti-clockwise
Direction of flow	Inlet and outlet are independent of the direction of rotation
Installation	Optional, inlet connection preferably at the top
Drive	Direct, co-axial drive; radial and axial forces cannot be taken up

Technical data

Series	Flow code	Geometric displacement ml/r	Max pressure bar						Max speed (r/min)		Min. speed r/min
			Antiwear hydraulic oil		General hydraulic oil phosphate ester fluid		Water glycol fluid or water-oil emulsion		General hydraulic oil or antiwear hydraulic oil	Water glysol fluid or phosphate ester fluid or water oil emulsion	
			Instant	Continous	Instant	Continous	Instant	Continous			
VPS1	16	16.0	280	245	210	175	175	140	2800	1800	50
	20	20.0									
	25	24.8									
	32	32.1									
	40	40.1									
	50	50.3									
VPS2	64	63.5	245	210	210	175	175	140	2500	1800	50
	70	70.3									
	80	80.4									
	100	100.5									
VPS3	125	125.3	245	210	210	175	175	140	2200	1800	50
	160	160.1									
	180	180.0									
	200	200.5									

Product Performance

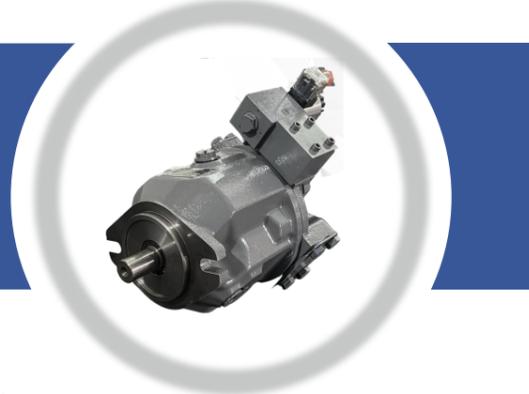
Performance index	Performance data
Displacement range ml/r	16~200
Max pressure bar	245-280
Max speed	2200~2800
Volume efficiency% (Within rotation speed 1500r/min, pump displacement 40mL/r, pressure 16MPa, oil temperature 50°C)	≥95

Ordering code details:

VPS1	50	P	R	14	/ 1xT	V	
Series Build	VPS 1	VPS 2	VPS 3	Build Flow cc/rev	VPS1 = 16, 20, 25, 32, 40, 50, 64	VPS2 = 64, 70, 80, 100, 110, 125, 145, 160	VPS3 = 160, 180, 200
Shaft type	Cylindrical drive shaft			= P			
	Splined shaft			= S			
Rotation-Viewed from shaft end	Right hand for clockwise			= R			
	Left hand for counter clockwise			= L			
Connections	SAE Suction and pressure connections, Metric fixing screws						
Outlet position-Viewed from shaft end	Top (0° from the inlet)			= D			
	Right (90° to the right of the inlet)			= R			
	Left (90° to the left of the inlet)			= L			
	Bottom (180° from the inlet)			= U			
Series code	= 1xT						
Sealing Material	NBR Seals			= M			
	FKM Seals			= V			
Shaft Code	VPS1			= 3A, 2A, 1A			
	VPS2			= 1A			
	VPS3			= 2A			

A10V(S)O (DE) Series

Variable Displacement Axial Piston Pump
With Electrical two point Control
Displacement: 28 to 100cc/rev
Max. operating pressure: 280 bar



Features:

- The capacity of the pump is in proportion to its rotating speed and displacement ;the stepless adjustment of the displacement can be materialized by regulating the swivel angle of its swash plate.
- There are many variable control forms, Fast control response;
- Allows for continuous operating pressures up to 28MPa;
- There are two shell discharge ports;
- High power/weight ratio;
- The drive shaft is able to bear the axial and radial load ;
- With through-shaft structure, able to form combination pump;

Control Device :

DE-Electrical Two-Point Control The variable displacement unit is set to the minimum swing angle through the drive switch solenoid valve. Control pressure originates from the high-pressure side. The system requires a minimum pressure to adjust the pump, which depends on operational data (please contact us). The axial piston unit can only switch between Vg max and Vg min.

Technical Specifications

Size				28	32	45	71	100
Displacement		Vgmax	mL/r	28	32	45	71	100
Pressure at suction port S (Absolute pressure)	Min. pressure	Ps min	bar	0.8				
	Max. pressure	Ps max	bar	10				
Pressure at Outlet port B (Absolute pressure)	Rated pressure	PN	bar	280				
	Peak pressure	Pmax	bar	350				
	Min. pressure		bar	10				
Rate of pressure change		RA	bar/s	16000				
Drain port L,Li pressure (Absolute pressure)		PL	bar	≤2				
Max. speed	Vg=Vg max	no max	r/min	3000	3000	2600	2200	2000
Ps= 1bar	Vg=Vg max		r/min	3600	3600	3100	2600	2400
Max. flow	n=no max	qvo max	l/min	84	96	117	156	200
	n=1500 r/min		l/min	42	42	68	107	150
Maximum power(Ap=280 bar)	n=no max	Po max	kw	39	45	55	73	93
	n=1500 r/min		kw	20	22.4	32	50	70
Torque(Vg= Vgmax)	ΔP=280bar	Tmax	Nm	125	125	200	316	445
	ΔP=100bar	T	Nm	45	45	72	113	159
Torsionastiffness	Shaft extension P		Nm/rad	25656	25656	41232	80627	132335
	Shaft extension S		Nm/rad	22317	22317	37500	71884	121142
	Shaft extension R		Nm/rad	26360	26360	41025	76545	-
	Shaft extension U		Nm/rad	16695	16695	30077	52779	91903
Shaft extension K		Nm/rad	26189	26189	43905	82112	135303	
Moment of inertia of the rotating assembly	J		kgm ²	0.0017	0.0017	0.0033	0.0083	0.0167
Max. angular acceleration			rad/s ²	5500	5500	4000	3300	2700
Volume of case			L	0.7	0.7	1.0	1.6	2.2
Weight			Kg	15	15	21	33	45
Drive shaft Allowable load	Max.axial force		N	1000	1000	1500	2400	4000
	Max. radial force		N	1200	1200	1500	1900	2300

Pressure Sensor

A pressure transducer is an electronic device that transforms a physical variable (pressure) into an electrical signal (current or voltage), acquired by various control, measurement and regulation devices such as controllers or PLCs. These sensors are capable of measuring fluid and gas pressure in all applications required by the industry.

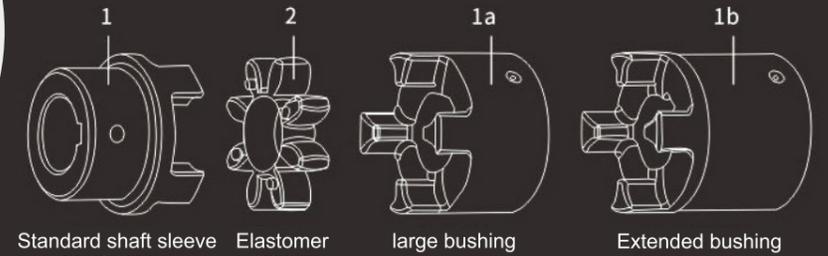
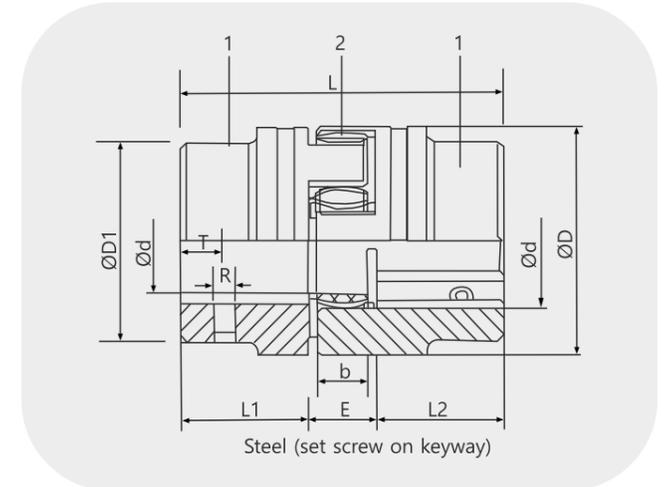
Specs.

- Ratiometric
- 4...20mA
- 0.5...4.5Vdc, 0...5Vdc, 0...10Vdc



BRACKET BELL HOUSING

Unit Dimensions

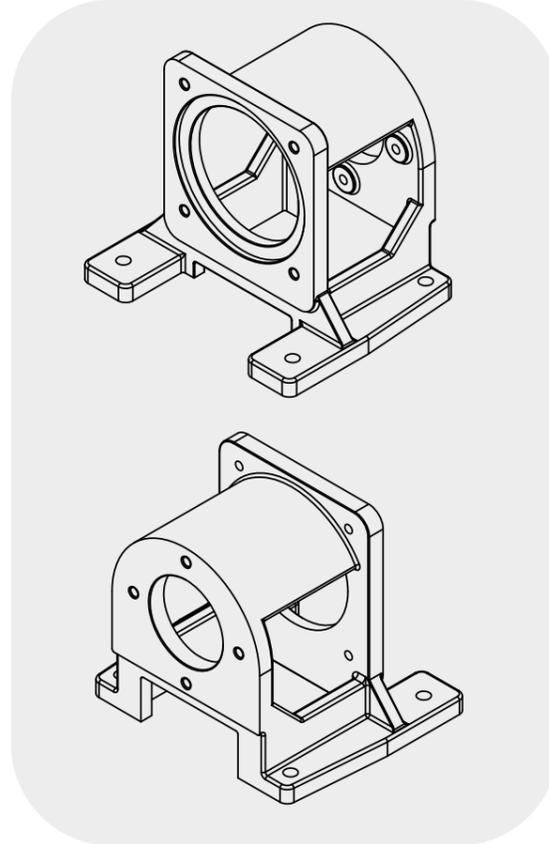
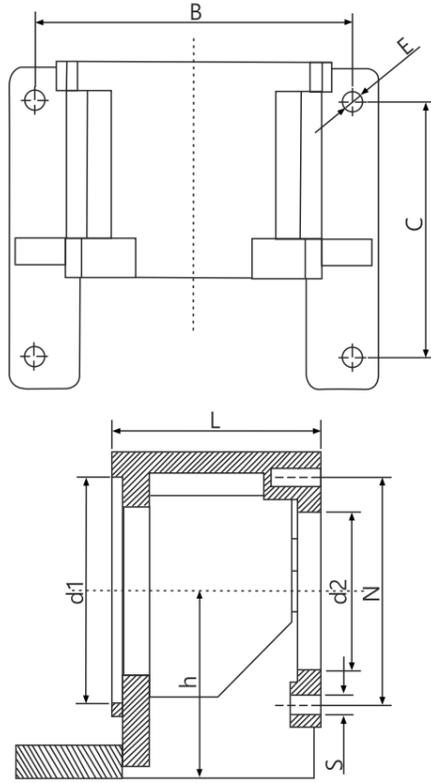


Model	Parts	Elastomer			Fin. pore size max-min	Overall Dimensions						Positioning screw		
		Rated force dist. (Nm)				L	L1	L2	E	b	D	D1	T	R
		92Sha	98Sha	64ShD										
GR28 (UID: T014511616)	1a	95	160	200	0-38	90	35	35	20	15	64	63	12	M8
	1b													
GR38 (UID: T014511617)	1a	190	325	405	0-48	114	46	46	22	18	79	78	15	M8
	1b													
GR42 (UID: T014511618)	1	265	450	560	0-55	130	53	53	24	20	94	80	20	M10
	1b											150		
GR48 (UID: T014511619)	1	310	525	655	0-60	140	55	55	27	22	104	93	20	M10
	1b											160		
GR55 (UID: T014511621)	1b	410	685	825	0-65	160	87	48	28	22	119	118	20	M10
GR65 (UID: T014511622)	1b	625	940	1175	0-75	215	115	64	35	26	135	134	25	M10
GR75 (UID: T014511623)	1b	1280	1920	2400	0-85	238	132	67	38	30	159	158	25	M10
GR90 (UID: T014511624)	1b	2400	3600	4500	0-95	280	150	90	40	34	159	198	30	M12

BRACKET BELL HOUSING

Cast Brackets to reduce the balance the center gravity of servo motor and hydraulic pump. The special pump bracket is made of Ht250 instead of the common steel plate welding pump bracket. Compared with the same kind of products, it has the following characteristics: high strength, no deformation, good vibration resistance, low noise, low temperature and can automatically eliminate unused shaft in the misalignment between the servo motor and hydraulic pump.

Unit Dimensions



Model	Dimensions in mm								
	L	d1	d2	S	N	h	B	C	E
SBH100/180-82 (UID: T014511608)	168	180	82.55	M10	106	150	250	200	14
SBH150/180-101 (UID: T014511609)	168	180	101.6	M12	146	150	250	200	14
SBH250/180-127 (UID: T014511610)	195	180	127	M16	181	150	250	200	18
SBH350/180-152 (UID: T014511611)	198	180	152.4	M20	228.6	165	250	200	18
SBH380/250-101 (UID: T014511612)	225	250	101.6	M12	146	200	320	250	20
SBH400/250-127 (UID: T014511613)	225	250	127	M16	181	200	320	250	20
SBH450/250-152 (UID: T014511614)	225	250	152.4	M20	228.6	200	320	250	20
SBH-B260/180-152-H225 (UID: T014511615)	225	180	152.4	M20	228.6	200	320	250	20

NEW LEVEL OF ELECTRO-HYDRAULIC INTEGRATION

Direct Control/Pilot Operated Proportional directional valve
Fast cycle speed, good buffer control, accurate positioning accuracy
Open and Close mold

Direct controlled/Pilot operated proportional pressure valve
The low bottom pressure can accurately adjust the pressure for injection molding of different materials with high repeatability.

Two-way cartridge/spool control valve with position monitoring
Real-time oil circuit monitoring to ensure equipment safety performance; Ensure personal safety

Solenoid valve/electro-Hydraulic directional valve
Push Out; Fast Response Accurate Positioning
Mold Adjustment takes a long time No stuck valve
Accurate positioning of mold opening and closing low noise

Servo Pump Motor Assembly
Energy Efficient
Precise Control
Low Noise
Compact & Reliable

Energy efficiency Pump Motor Assembly
Cooling and lubrication
High energy efficiency
Low noise
Low temperature rise

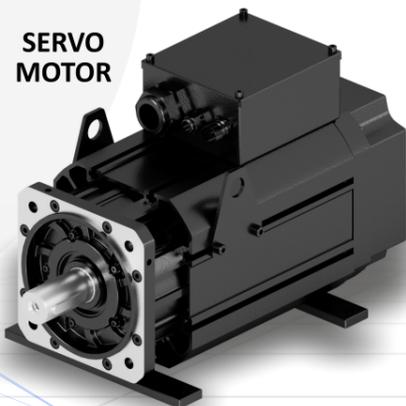
STANDARD SERVO SET SELECTION TABLE

Model	Pressure (mpa)	Flow (L/min)	Mating machine (Ton)	Motor Data			Outlet volume (cc/r)	Servo Motor	Servo Drive
				Torque(Nm)	Power (Kw)	Speed (Rpm)			
THM-0090T0065L	17.5	65	90	64 Nm	13.6 Kw	2000 Rpm	32cc	THH6-18F0620K3	THSD-23-380V-3P15
THM-0120T0080L	17.5	80	120	85 Nm	17.8 Kw	2000 Rpm	40cc	THH6-18F0920K3	THSD-23-380V-3P18.5
THM-0160T0100L	17.5	100	160	107 Nm	22.4 Kw	2000 Rpm	50cc	THH6-18F1120K3	THSD-23-380V-3P22
THM-0200T0125L	17.5	125	200	138 Nm	28.9 Kw	2000 Rpm	63cc	THH6-18F1420K3	THSD-23-380V-3P30
THM-0260T0160L	17.5	160	260	172 Nm	36.1 Kw	2000 Rpm	80cc	THH6-18F1820K3	THSD-23-380V-3P37
THM-0300T0200L	17.5	200	300	220 Nm	46.0 Kw	2000 Rpm	100cc	THH6-18F2220K3	THSD-23-380V-3P45
THM-0360T0250L	17.5	250	360	250 Nm	52.4 Kw	2000 Rpm	125cc	THH6-25F2620K3	THSD-23-380V-3P55
THM-0500T0320L	17.5	320	500	295 Nm	67 Kw	2000 Rpm	160cc	THH6-25F3120K3	THSD-23-380V-3P75

EACH SERVO SET INCLUDES BELOW ITEMS

MOTOR MAKE **THM**, DRIVE MAKE **THM**, PUMP MAKE THM, PRESSURE TRANSDUCER MAKE **GEFRAN**, COUPLING, BELL HOUSING, RESOLVER CABLE, POWER CABLE MAKE **RR CABELS**, BRAKING RESISTOR, INPUT LINE CHOKE, PUMP INPUT OUTPUT FLANGE

SERVO MOTOR



SERVO DRIVE



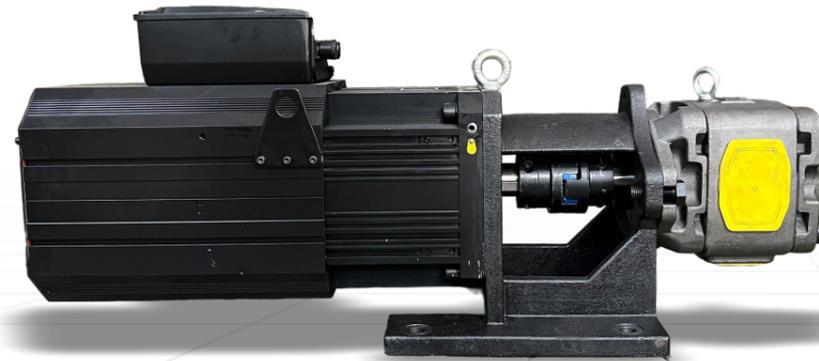
INTERNAL GEAR PUMP



HELICAL SILENT GEAR PUMP



SERVO MOTOR ASSEMBLY WITH INTERNAL GEAR PUMP



SERVO MOTOR ASSEMBLY WITH HELICAL SILENT GEAR PUMP

