MOTOR POWER COMPANY

SKA DDR

DIRECT DRIVE TORQUE SERVOMOTORS RATINGS AND SPECIFICATIONS

SKA DDR 090 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	14	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 090.30.2.17	SKA DDR 090.30.2.18	SKA DDR 090.30.2.19	SKA DDR 090.30.2.50
Stall torque	Nm	2,0	2,0	2,0	2,0
Peak torque	Nm	15,9	15,9	14,3	10,5
Stall current	Arms	1,25	0,83	0,5	0.36
Peak current	Arms	14	9,3	4.8	2,1
Maximum speed @230 Vac 3phase	rpm	1200	1200	750	500
Maximum speed @400 Vac 3phase	rpm	-	-	1200	800
Torque constant ± 5%	Nm/Arms	1,14	1,71	3,0	5,0
Voltage constant ± 5%	Vrms/krpm	96	144	240	340
Phase/phase resistance ± 5%	Ohm	9,7	22,6	60	130
Phase/phase inductance	mH	21	48	140	250
Electrical time constant	msec	2,3	2,3	2,4	2,0
Thermal resistance	°C/W	3,2	3,2	3,2	3,2

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 225x225x8mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 090.60.3,5.17	SKA DDR 090.60.3,5.18	SKA DDR 090.60.3,5.19	SKA DDR 090.60.3,5.50
Stall torque	Nm	3,5	3,5	3,5	3,5
Peak torque	Nm	28	28	28	21
Stall current	Arms	2,19	1,46	0,87	0,63
Peak current	Arms	26,9	17,8	11,2	5,46
Rated current	Arms				
Maximum speed @230 Vac 3phase	rpm	1200	1200	750	500
Maximum speed @400 Vac 3phase	rpm	-	-	1200	800
Torque constant ± 5%	Nm/Arms	1,04	1,57	2,50	3.85
Voltage constant ± 5%	Vrms/krpm	96	144	240	340
Phase/phase resistance ± 5%	Ohm	3,9	8.9	32,4	47
Phase/phase inductance	mH	12	27	72	142
Electrical time constant	msec	3,0	3,0	3,0	3,0
Thermal resistance	°C/W	2,6	2,6	2,6	2,6

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 225x225x8mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 090 RATINGS AND SPECIFICATIONS

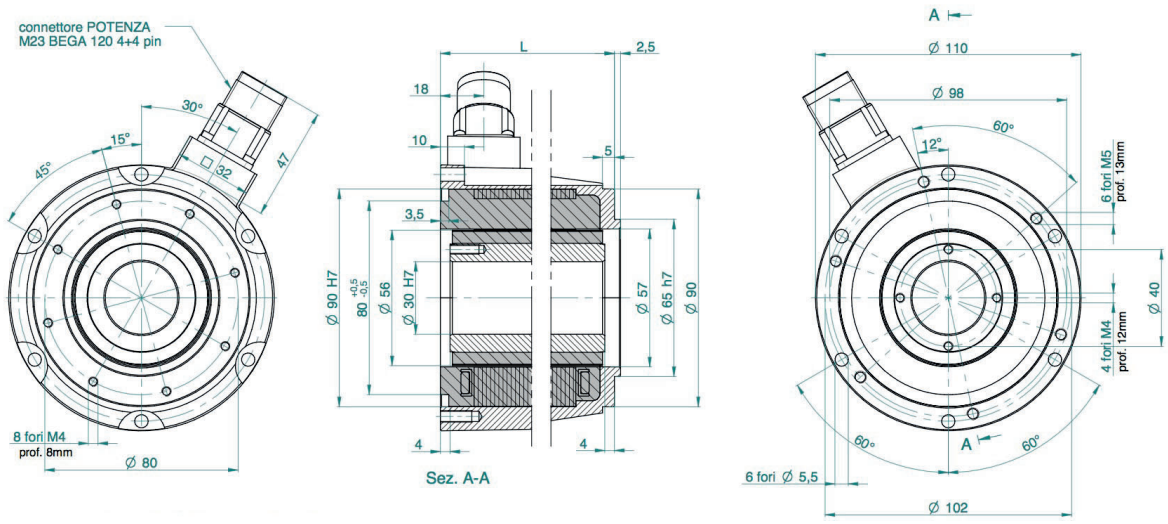
TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	14	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 090.90.4,7.17	SKA DDR 090.90.4,7.18	SKA DDR 090.90.4,7.19	SKA DDR 090.90.4,7.50	SKA DDR 090.90.4,7.51
Stall torque	Nm	4,7	4,7	4,7	4,7	4,7
Peak torque	Nm	40	40	40	30	19
Stall current	Arms	2,94	1,96	1.17	0,84	0,50
Peak current	Arms	38	26	16	8,0	2,8
Maximum speed @230 Vac 3phase	rpm	1200	1200	750	500	300
Maximum speed @400 Vac 3phase	rpm	-	-	1200	800	500
Torque constant ± 5%	Nm/Arms	1,05	1,54	2,50	3,75	6,8
Voltage constant ± 5%	Vrms/krpm	96	144	240	340	570
Phase/phase resistance ± 5%	Ohm	3,5	7	19,2	40	115
Phase/phase inductance	mH	9,9	20	54	120	345
Electrical time constant	msec	3,3	3,0	2,9	3,0	3,0
Thermal resistance	°C/W	2,1	2,1	2,1	2,1	2,1

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

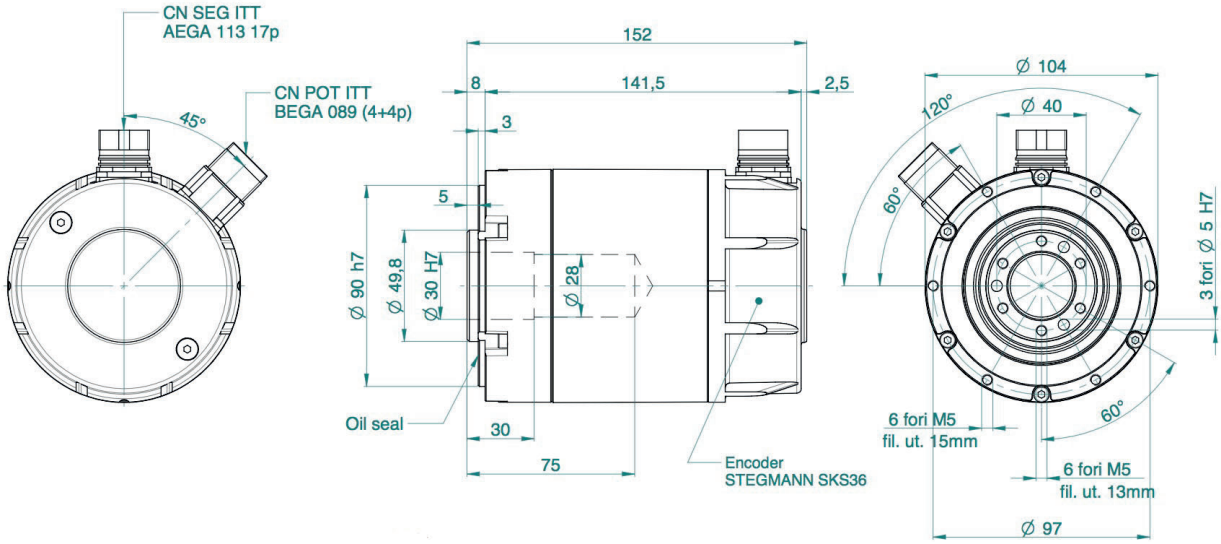
Output continuous rating with 225x225x8mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 090 FRAMELESS reference drawing 02

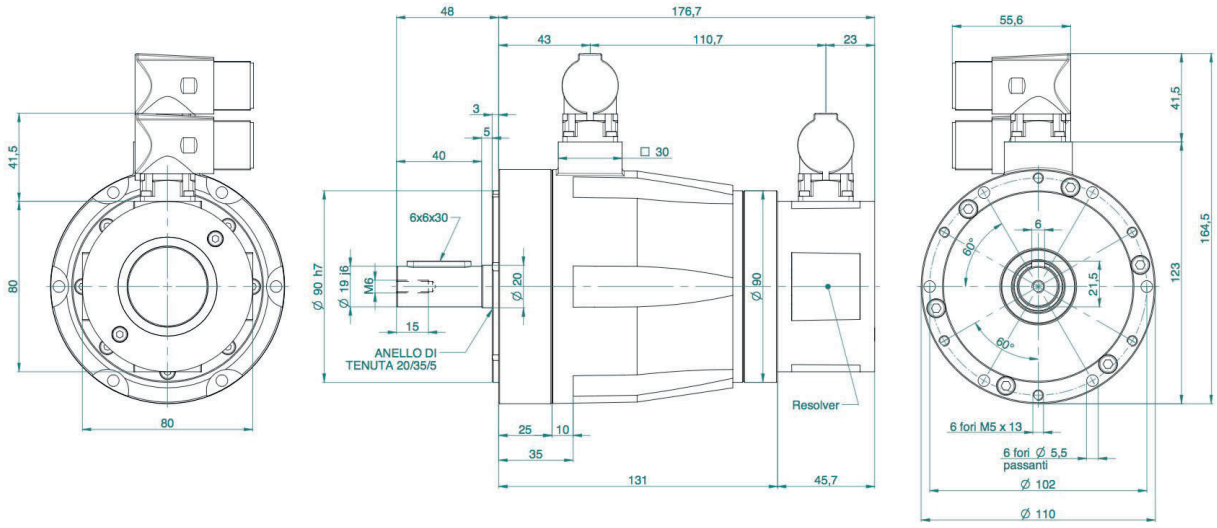


MOTOR TYPE	L (mm)
SKA DDR 090.30	60
SKA DDR 090.60	90
SKA DDR 090.90	120

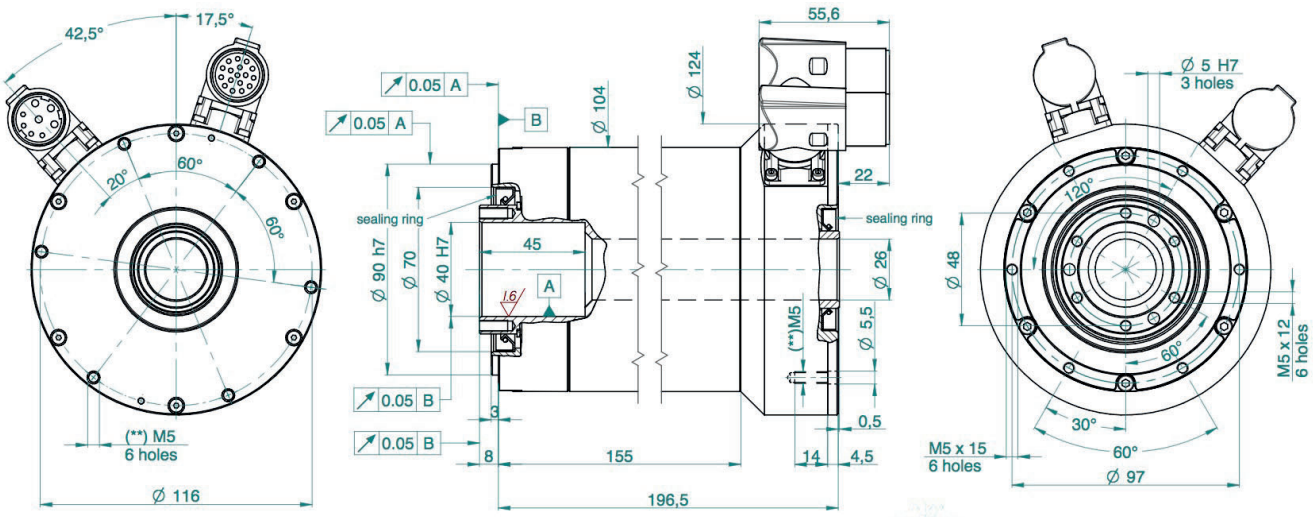
SKA DDR 090.30 POWER PACK HOLLOW SHAFT reference drawing 03



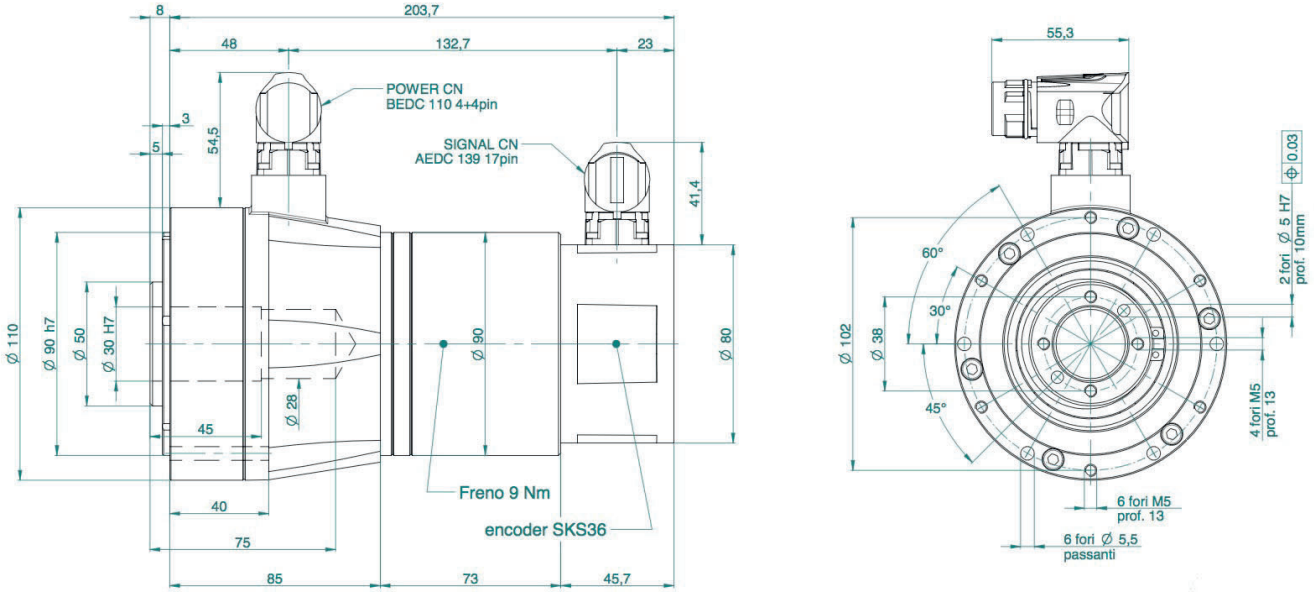
SKA DDR 090.60 POWER PACK MALE SHAFT reference drawing 04



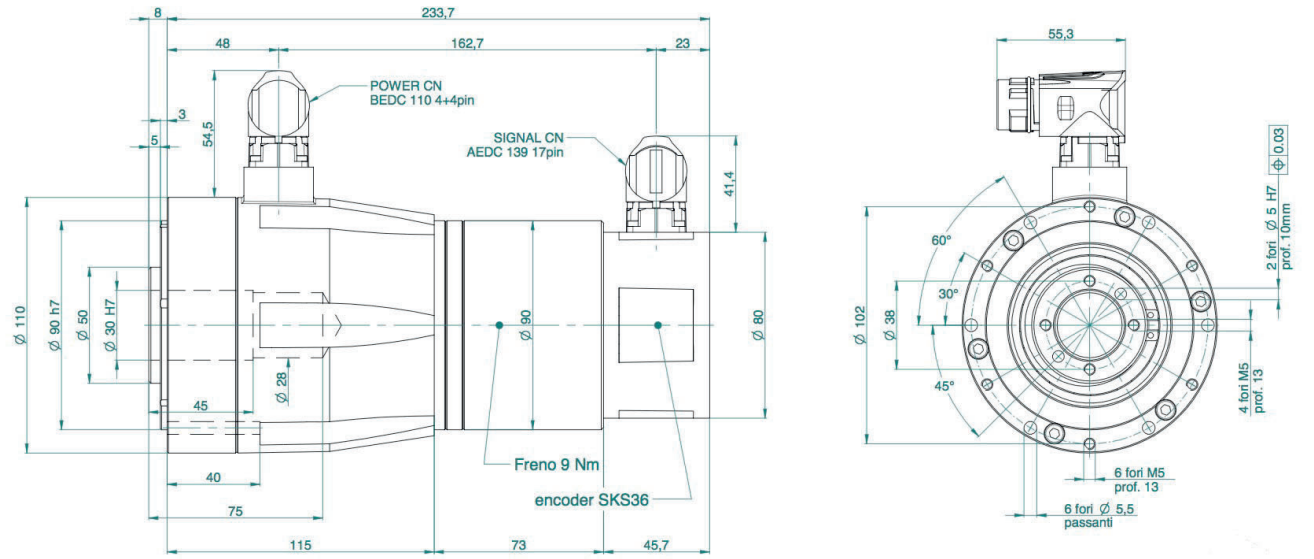
SKA DDR 090.90 POWER PACK THROUGH HOLLOW SHAFT reference drawing 05



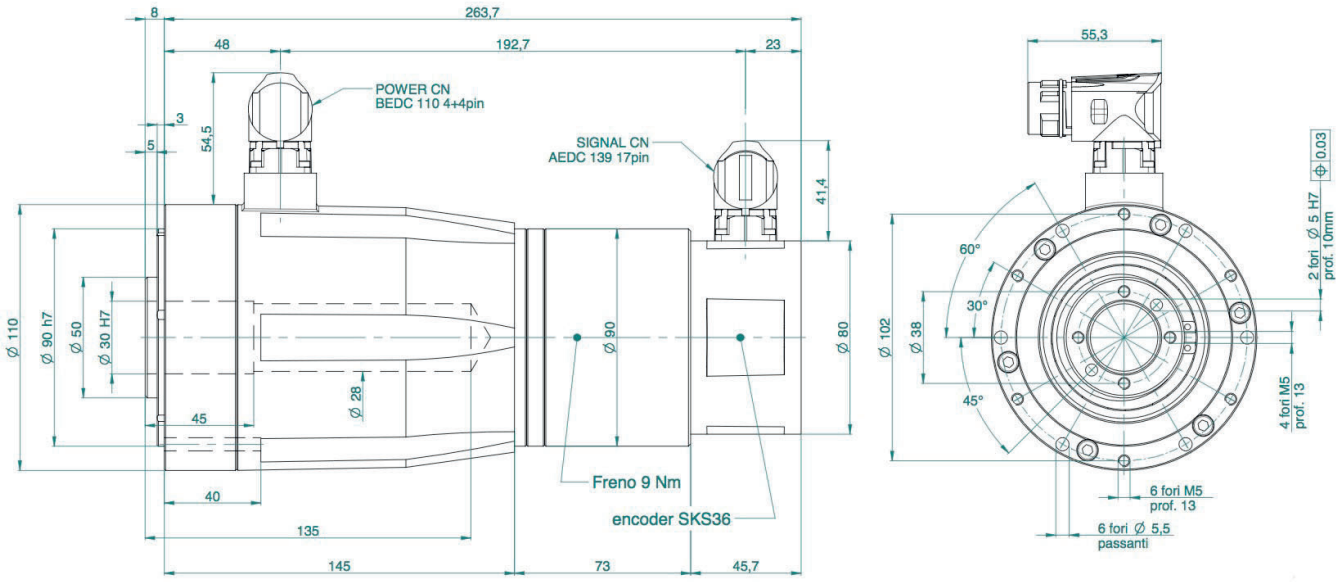
SKA DDR 090.30 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 06



SKA DDR 090.60 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 07

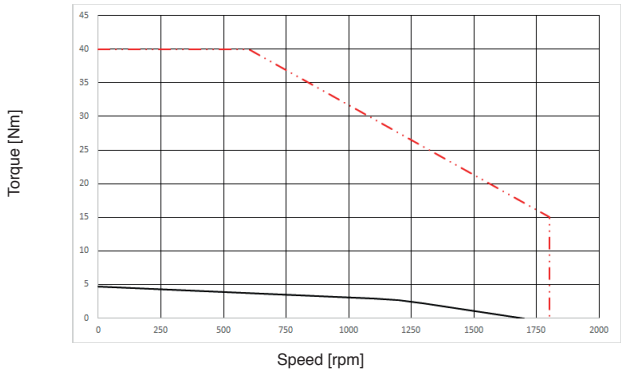


SKA DDR 090.90 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 08

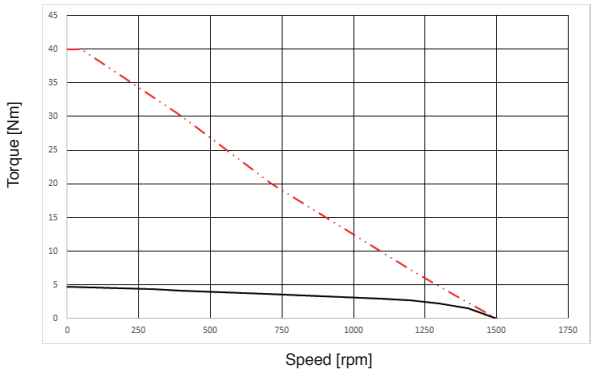


SKA DDR 090 TORQUE AND SPEED CHARTS

SKA DDR 090.90.18 400 Vac



SKA DDR 090.90.19 400 Vac



CONTINUOUS DUTY @ RATED VOLTAGE

INTERMITTENT DUTY @ RATED VOLTAGE

SKA DDR 148 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	14	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 148.30.8.17	SKA DDR 148.30.8.18	SKA DDR 148.30.8.19	SKA DDR 148.30.8.50	SKA DDR 148.30.8.51	SKA DDR 148.30.8.52
Stall torque	Nm	8	8	8	8	8	8
Peak torque	Nm	35	35	35	35	35	24
Stall current	Arms	5,00	3,33	2,00	1,43	0,85	0,51
Peak current	Arms	26,9	18,0	10,7	7,71	4,60	1,75
Maximum speed @230 Vac 3phase	rpm	1000	1000	750	500	300	-
Maximum speed @400 Vac 3phase	rpm	-	-	1000	800	500	300
Torque constant ± 5%	Nm/Arms	1,30	1,94	3.26	4,54	7,61	13,7
Voltage constant ± 5%	Vrms/krpm	96	144	240	340	570	950
Phase/phase resistance ± 5%	Ohm	1,2	3,60	6,2	11.8	39,1	99
Phase/phase inductance	mH	3,85	12,6	23	50	140	380
Electrical time constant	msec	3,5	3,5	3,5	3,5	3,5	3,5
Thermal resistance	°C/W	1,21	1,21	1,21	1,21	1,21	1,21

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a front temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 370x370x10mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 148.60.14.17	SKA DDR 148.60.14.18	SKA DDR 148.60.14.19	SKA DDR 148.60.14.50	SKA DDR 148.60.14.51	SKA DDR 148.60.14.52
Stall torque	Nm	14	14	14	14	14	14
Peak torque	Nm	72	72	72	72	72	65
Stall current	Arms	8,75	5,83	3,50	2,50	1,49	0,89
Peak current	Arms	55,4	37,1	22,1	15,9	9,5	4,9
Maximum speed @230 Vac 3phase	rpm	1000	1000	750	500	300	-
Maximum speed @400 Vac 3phase	rpm	-	-	1000	800	500	300
Torque constant ± 5%	Nm/Arms	1,30	1,94	3.26	4,54	7,61	13,7
Voltage constant ± 5%	Vrms/krpm	96	144	240	340	570	950
Phase/phase resistance ± 5%	Ohm	0,53	1,25	2,8	4,9	15,6	52,3
Phase/phase inductance	mH	2	4	13	21	67	254
Electrical time constant	msec	4,9	4,9	4,9	4,8	4,9	4,9
Thermal resistance	°C/W	1,13	1,13	1,13	1,13	1,13	1,13

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 370x370x10mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 148 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	14	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 148.90.20.17	SKA DDR 148.90.20.18	SKA DDR 148.90.20.19	SKA DDR 148.90.20.50	SKA DDR 148.90.20.51	SKA DDR 148.90.20.52	SKA DDR 148.90.20.53
Stall torque	Nm	20	20	20	20	20	20	20
Peak torque	Nm	106	106	106	106	106	90	60
Stall current	Arms	12,5	8,33	5,00	3,57	2,13	1,27	0,64
Peak current	Arms	81,5	54,6	32,5	23,3	13,9	6,85	2,1
Maximum speed @230 Vac 3phase	rpm	900	900	750	500	300	180	-
Maximum speed @400 Vac 3phase	rpm	-	-	-	800	500	300	150
Torque constant ± 5%	Nm/Arms	1,30	1,94	3.26	4,54	7,61	13,7	28,8
Voltage constant ± 5%	Vrms/krpm	96	144	240	340	570	950	1900
Phase/phase resistance ± 5%	Ohm	0,33	0,70	2,05	3,5	11,0	27,3	136
Phase/phase inductance	mH	1,6	3,6	9,5	17	62	125	632
Electrical time constant	msec	5,0	5,1	5,6	5,6	5,6	5,2	4,7
Thermal resistance	°C/W	0,94	0,94	0,94	0,94	0,94	0,94	0,94

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 370x370x10mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 148.120.26.18	SKA DDR 148.120.26.19	SKA DDR 148.120.26.50	SKA DDR 148.120.26.51	SKA DDR 148.120.26.52	SKA DDR 148.120.26.53
Stall torque	Nm	26	26	26	26	26	26
Peak torque	Nm	141	141	141	141	141	85
Stall current	Arms	10,8	6,50	4,64	2,77	1,66	0,83
Peak current	Arms	72,7	43,3	31,1	18,5	11,1	2,95
Maximum speed @230 Vac 3phase	rpm	900	750	500	300	180	-
Maximum speed @400 Vac 3phase	rpm	-	-	800	500	300	150
Torque constant ± 5%	Nm/Arms	1,94	3.26	4,54	7,61	13,7	28,8
Voltage constant ± 5%	Vrms/krpm	144	240	340	570	950	1900
Phase/phase resistance ± 5%	Ohm	0,50	1,38	3,0	7,80	22,5	87
Phase/phase inductance	mH	3,0	8,3	15	35	115	524
Electrical time constant	msec	6,0	6,0	6,1	6,0	6,0	6,0
Thermal resistance	°C/W	0,79	0,79	0,79	0,79	0,79	0,79

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 370x370x10mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 148 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	14	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 148.150.30.19	SKA DDR 148.150.30.50	SKA DDR 148.150.30.51	SKA DDR 148.150.30.52	SKA DDR 148.150.30.56	SKA DDR 148.150.30.53
Stall torque	Nm	30	30	30	30	30	30
Peak torque	Nm	170	170	170	170	125	95
Stall current	Arms	7,5	5,6	3,2	1,91	1,29	0,95
Peak current	Arms	53	37,8	22,4	13,4	6,1	3,1
Maximum speed @230 Vac 3phase	rpm	750	500	300	180	-	-
Maximum speed @400 Vac 3phase	rpm	-	800	500	300	200	150
Torque constant ± 5%	Nm/Arms	3,2	4,5	7,59	12,7	20,5	30,6
Voltage constant ± 5%	Vrms/krpm	240	340	570	950	1400	1900
Phase/phase resistance ± 5%	Ohm	1,17	2,4	6,64	19,1	40	80
Phase/phase inductance	mH	6,4	13	38	106	230	420
Electrical time constant	msec	5,5	5,4	5,7	5,5	5,7	5,3
Thermal resistance	°C/W	0,72	0,72	0,72	0,72	0,72	0,72

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 370x370x10mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

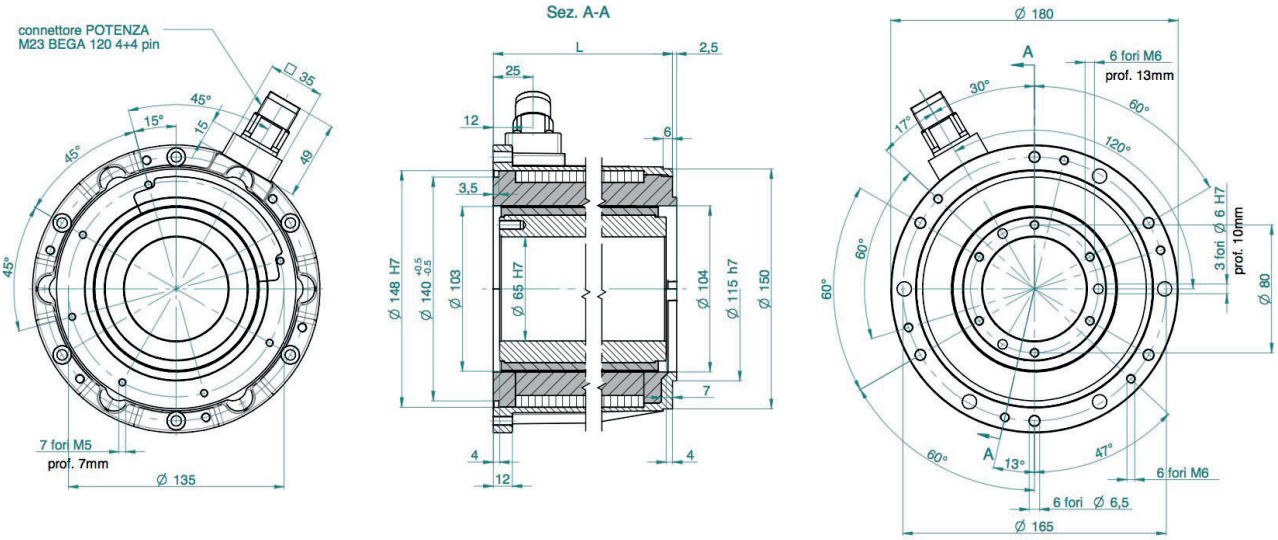
		SKA DDR 148.240.48.19	SKA DDR 148.240.48.50	SKA DDR 148.240.48.51	SKA DDR 148.240.48.52	SKA DDR 148.240.48.56	SKA DDR 148.240.48.53
Stall torque	Nm	48	48	48	48	48	48
Peak torque	Nm	260	260	260	260	211	168
Stall current	Arms	12	8,53	5,09	3,05	2,07	1,53
Peak current	Arms	81,3	57,8	32,3	20,5	10,3	5,5
Maximum speed @230 Vac 3phase	rpm	750	500	300	180	-	-
Maximum speed @400 Vac 3phase	rpm	-	800	500	300	200	150
Torque constant ± 5%	Nm/Arms	3,2	4,5	7,59	12,7	20,5	30,6
Voltage constant ± 5%	Vrms/krpm	240	340	570	950	1400	1900
Phase/phase resistance ± 5%	Ohm	0,73	1,48	4,12	11,6	25,3	46,9
Phase/phase inductance	mH	4,72	9,63	26,8	75,5	165	306
Electrical time constant	msec	6,5	6,5	6,5	6,5	6,5	6,5
Thermal resistance	°C/W	0,46	0,46	0,46	0,46	0,46	0,46

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 370x370x10mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

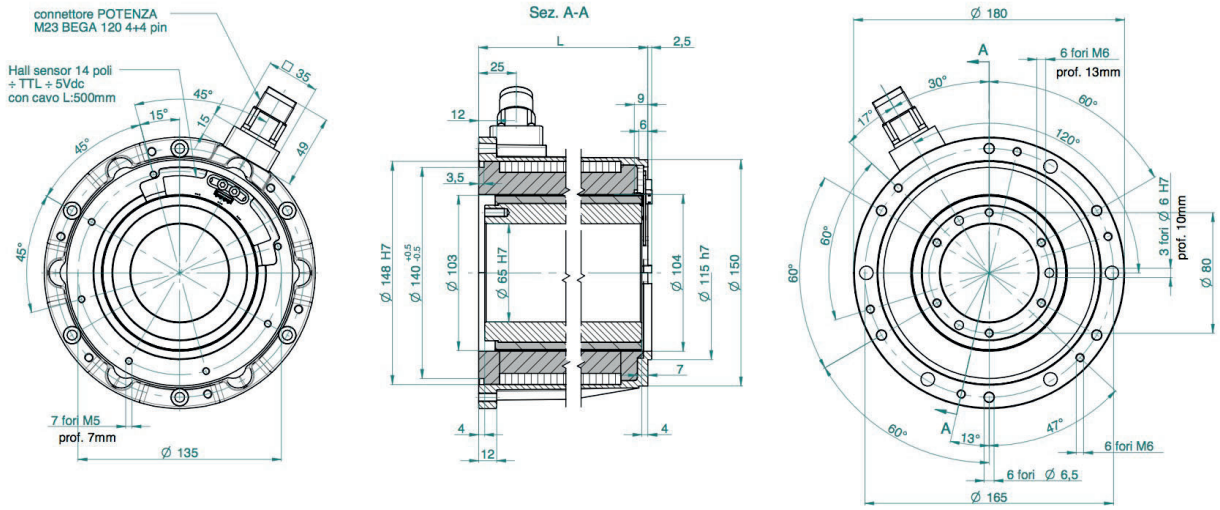
SKA DDR 148 DIMENSIONS AND CONFIGURATIONS

SKA DDR 148 FRAMELESS reference drawing 102



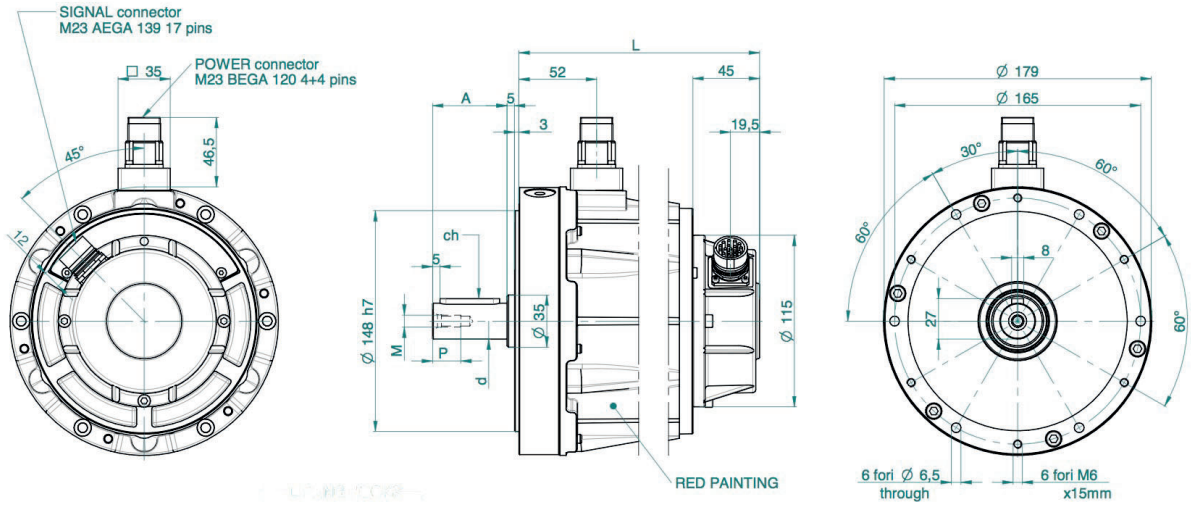
MOTOR TYPE	L (mm)
SKA DDR 148.30	62
SKA DDR 148.60	92
SKA DDR 148.90	122
SKA DDR 148.120	152

SKA DDR 148 FRAMELESS AND HALL SENSORS reference drawing 103



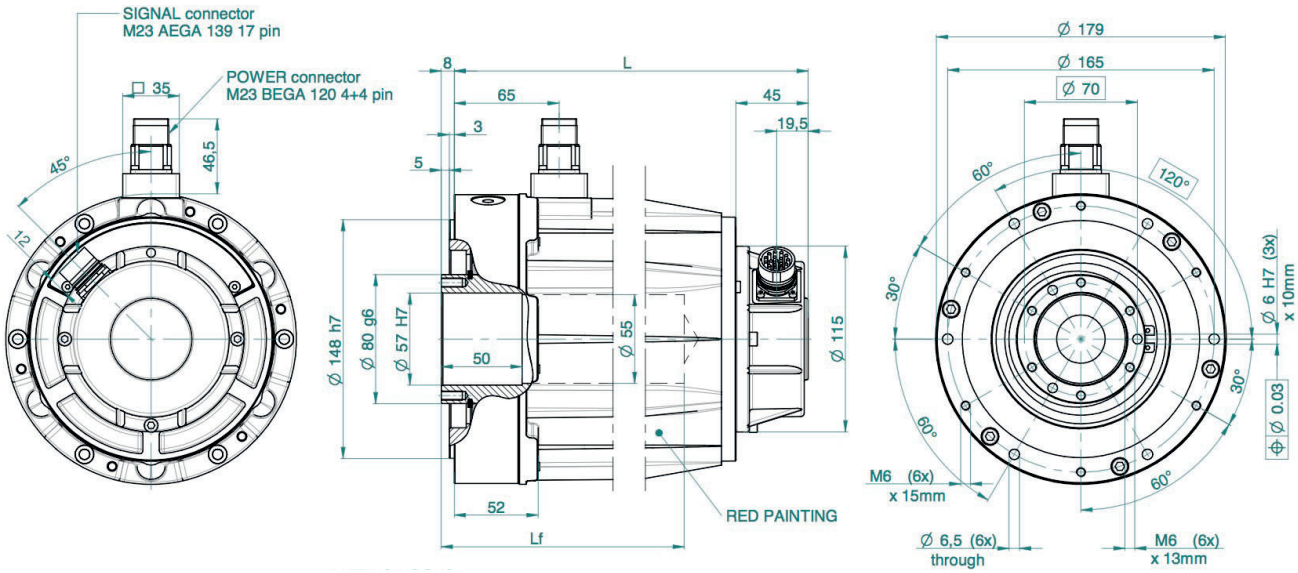
MOTOR TYPE	L (mm)
SKA DDR 148.30	62
SKA DDR 148.60	92
SKA DDR 148.90	122
SKA DDR 148.120	152

SKA DDR 148 POWER PACK MALE SHAFT reference drawing 104



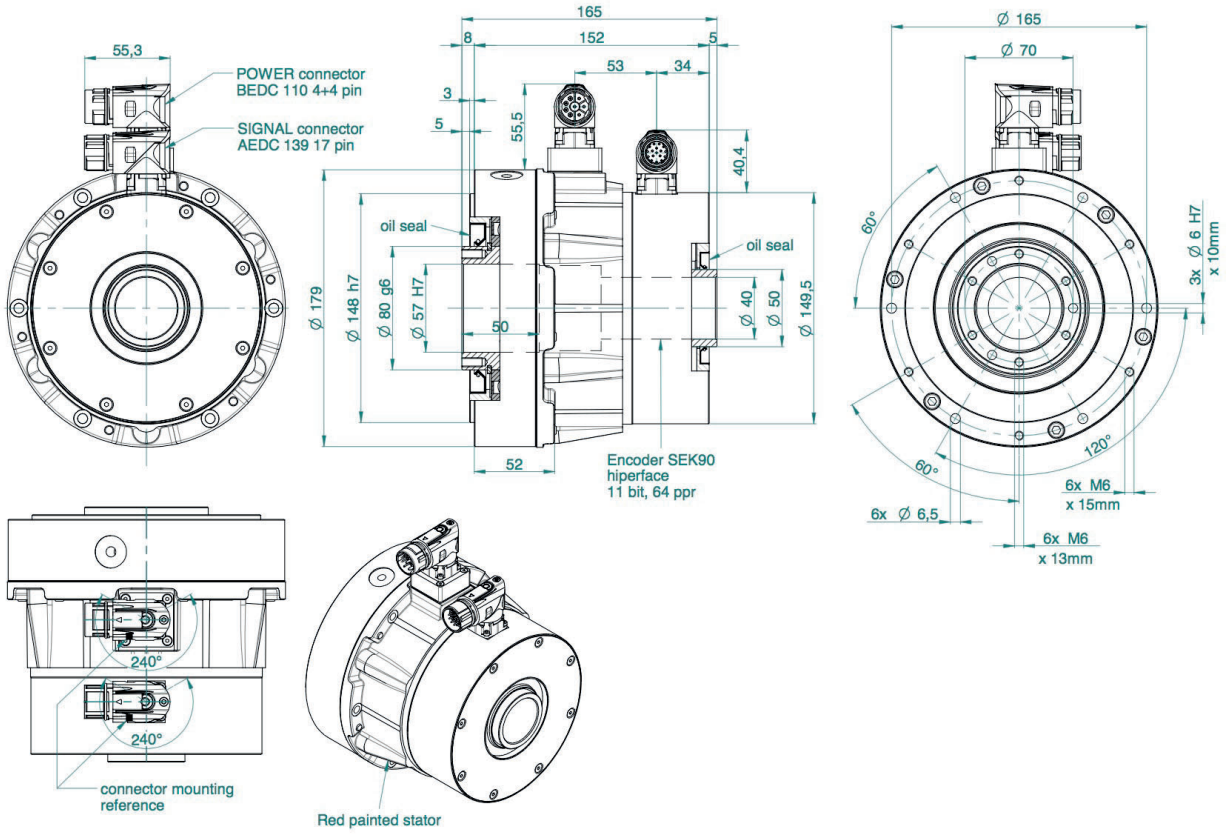
MOTOR TYPE	L (mm)	d (j6)	A	M	P	ch
SKA DDR 148.30	146	24	50	M8	19	8x7x40
SKA DDR 148.60	176	24	50	M8	19	8x7x40
SKA DDR 148.90	206	24	50	M8	19	8x7x40
SKA DDR 148.120	236	28	60	M10	22	8x7x50

SKA DDR 148 POWER PACK HOLLOW SHAFT reference drawing 105

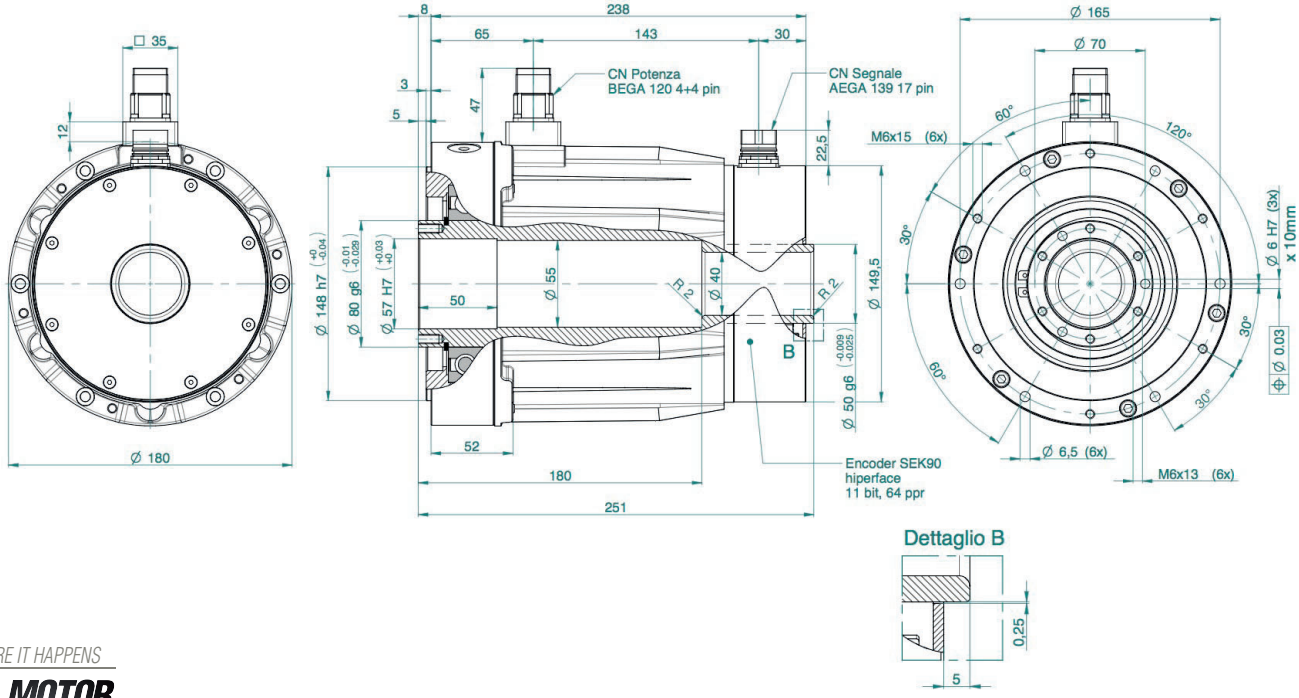


MOTOR TYPE	L (mm)	Lf (mm)
SKA DDR 148.30	159	90
SKA DDR 148.60	189	120
SKA DDR 148.90	219	150
SKA DDR 148.120	249	180

SKA DDR POWER PACK 148 30 THROUGH HOLLOW SHAFT reference drawing 106

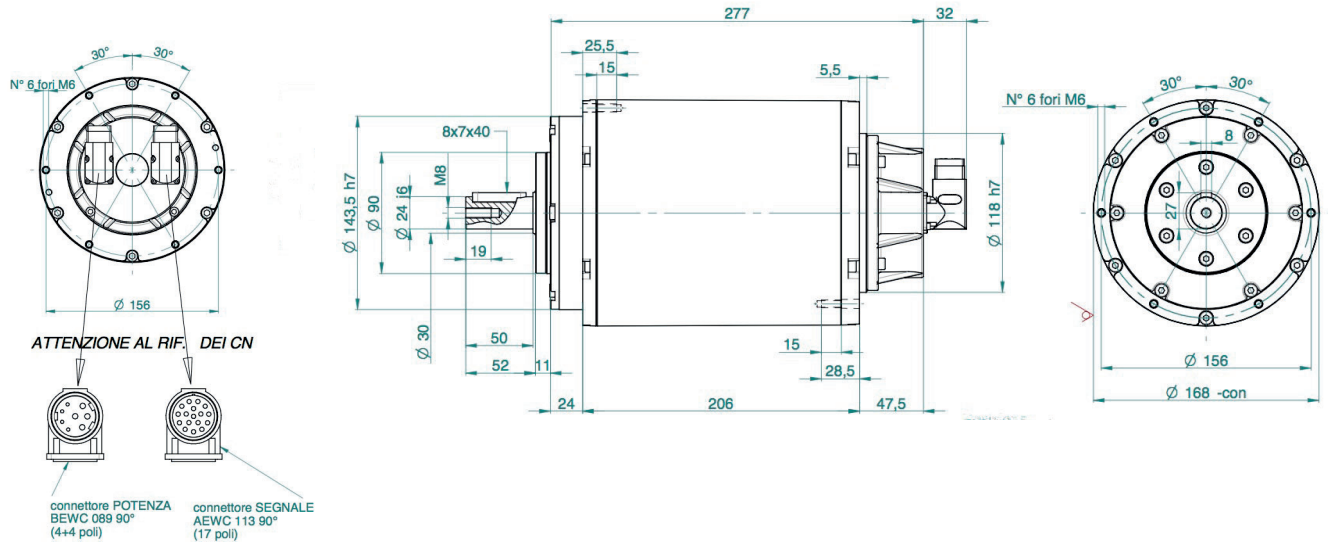


SKA DDR 148 120 POWER PACK THROUGH HOLLOW SHAFT reference drawing 107

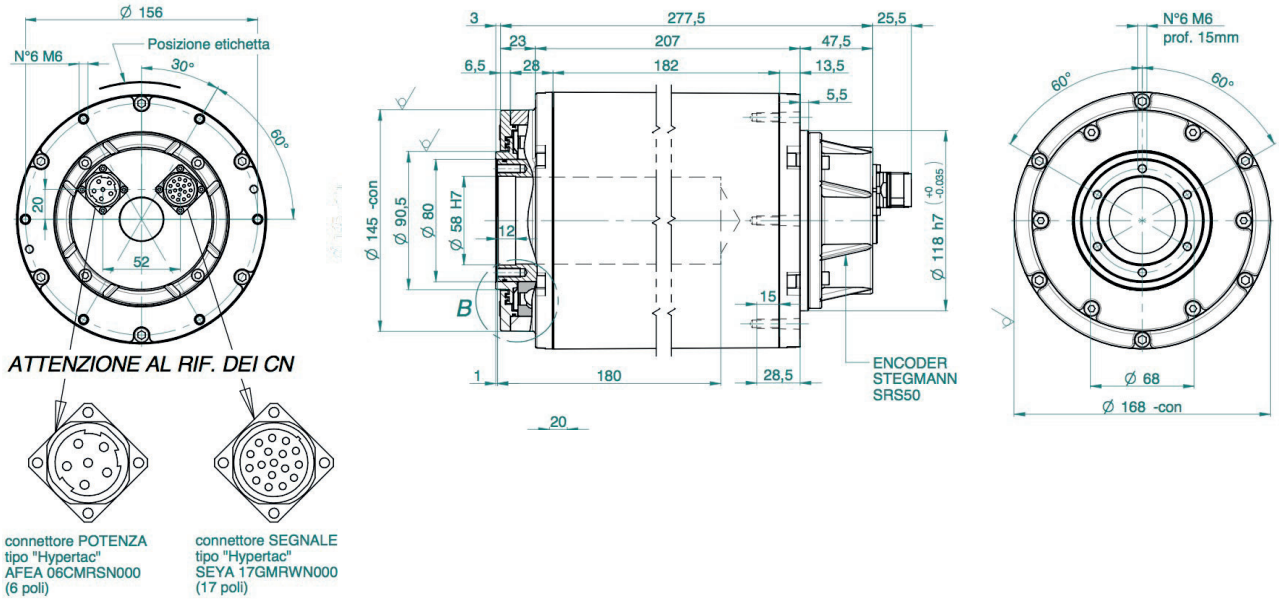


SKA DDR 148 DIMENSIONS AND CONFIGURATIONS

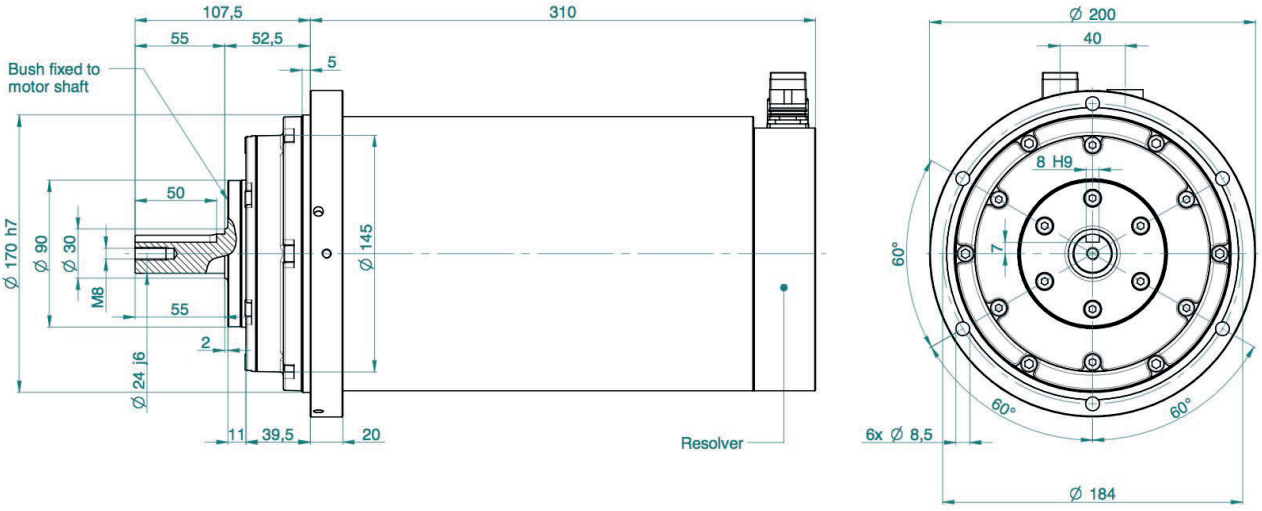
SKA DDR 148 150 POWER PACK MALE SHAFT reference drawing 108



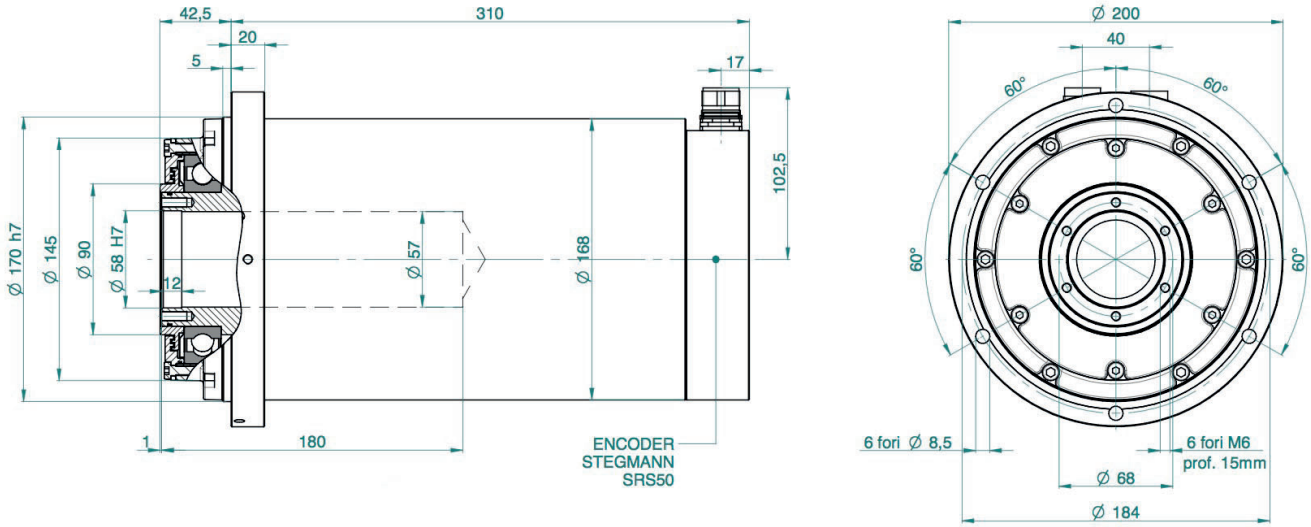
SKA DDR 148 150 POWER PACK HOLLOW SHAFT reference drawing 109



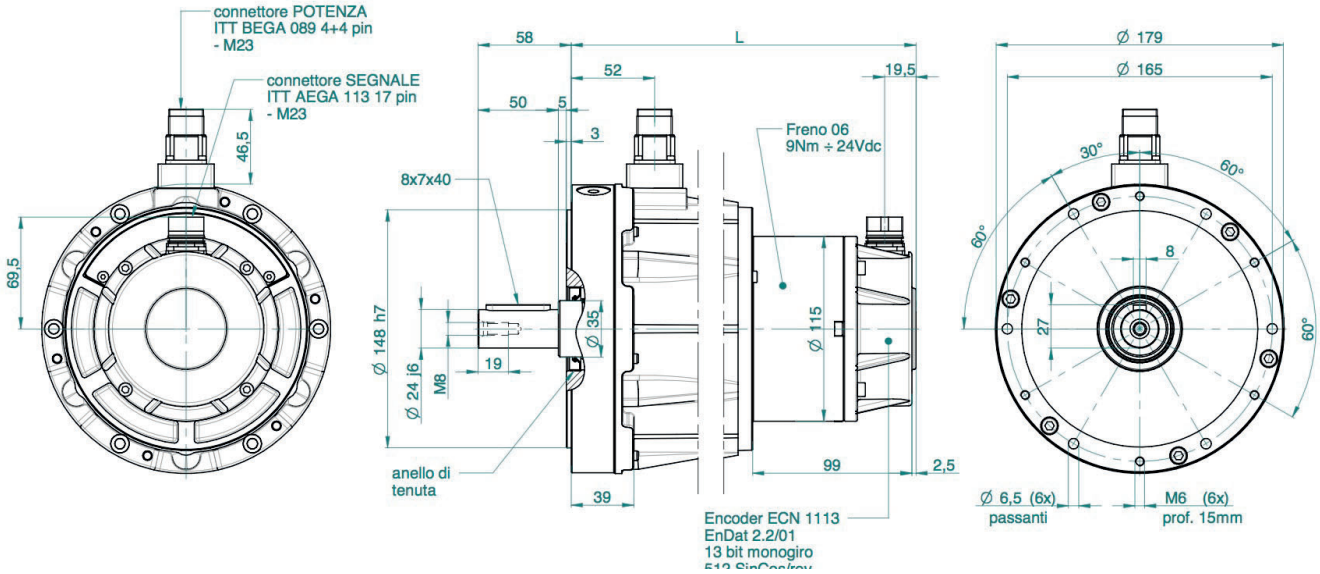
SKA DDR 148 240 POWER PACK MALE SHAFT reference drawing 110



SKA DDR 148 240 POWER PACK HOLLOW SHAFT reference drawing 111

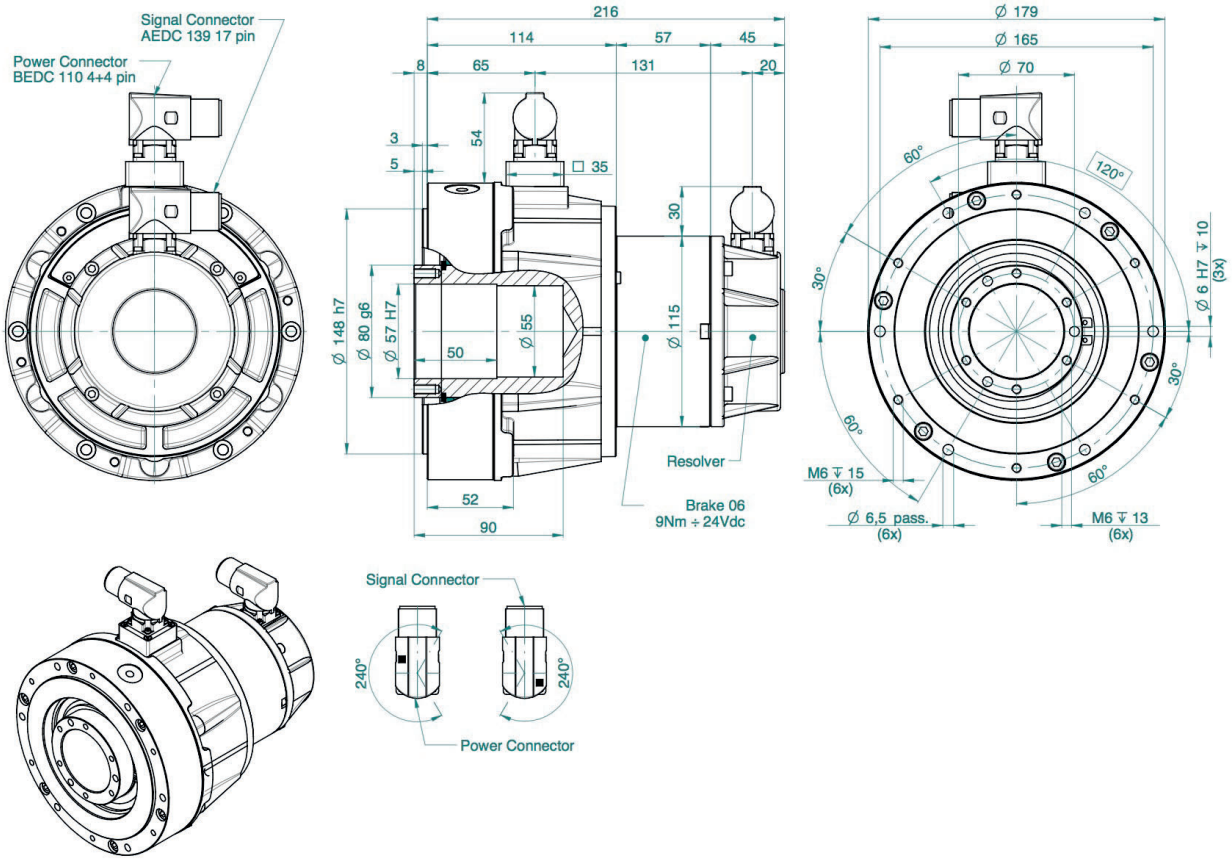


SKA DDR 148 POWER PACK MALE SHAFT AND BRAKE reference drawing 112

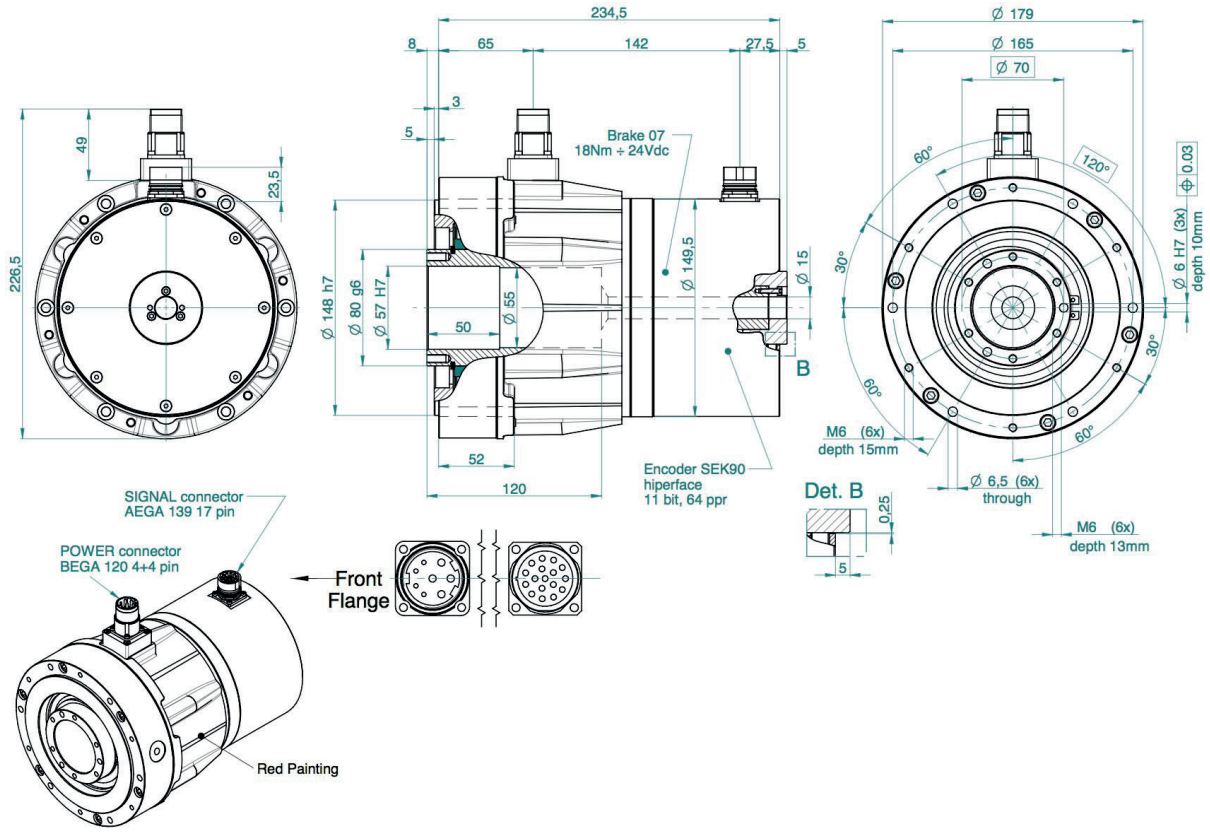


MOTOR TYPE	L (mm)
SKA DDR 148.30	203
SKA DDR 148.60	233
SKA DDR 148.90	263
SKA DDR 148.120	293

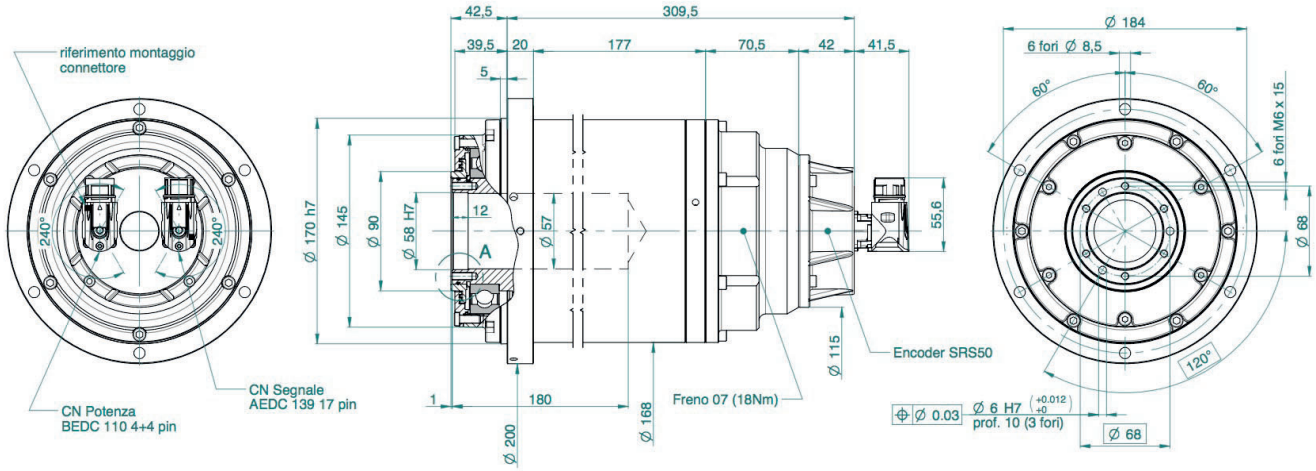
SKA DDR 148 30 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 113



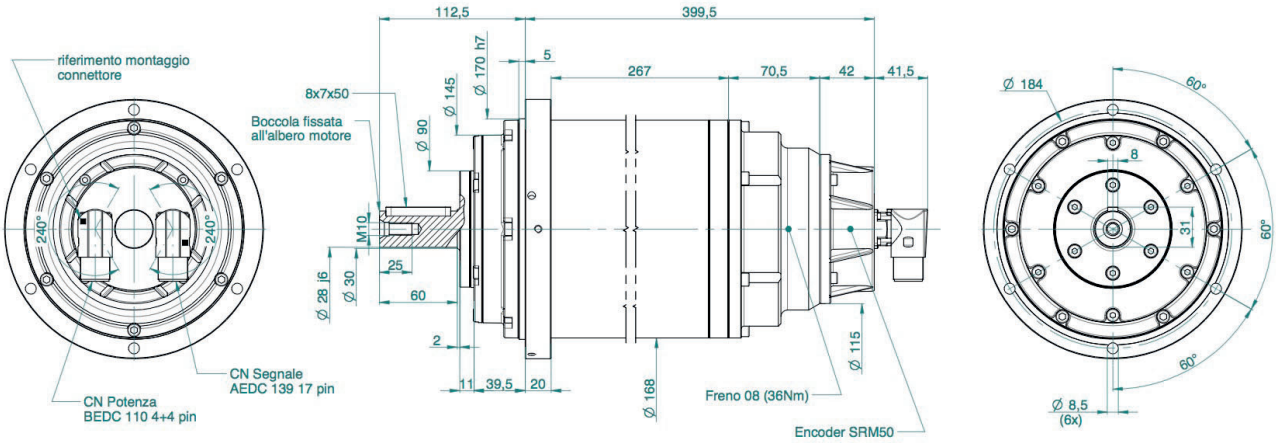
SKA DDR 148 60 POWER PACK THROUGH HOLLOW SHAFT AND BRAKE reference drawing 114



SKA DDR 148 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 115

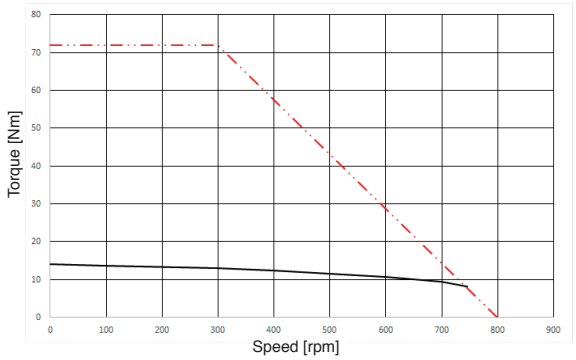


SKA DDR 148 240 POWER PACK MALE SHAFT AND BRAKE reference drawing 116

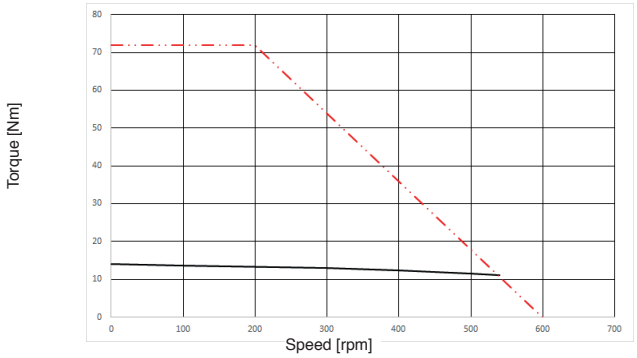


SKA DDR 148 TORQUE AND SPEED CHARTS

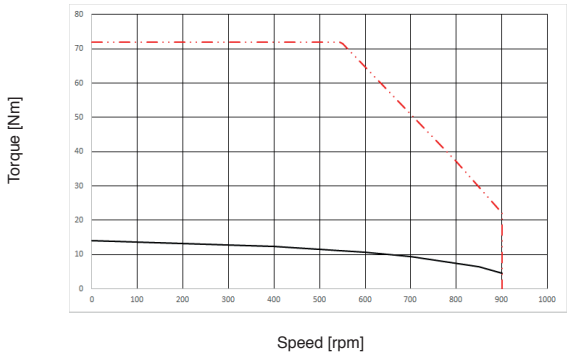
SKA DDR 148.60.19 230 Vac



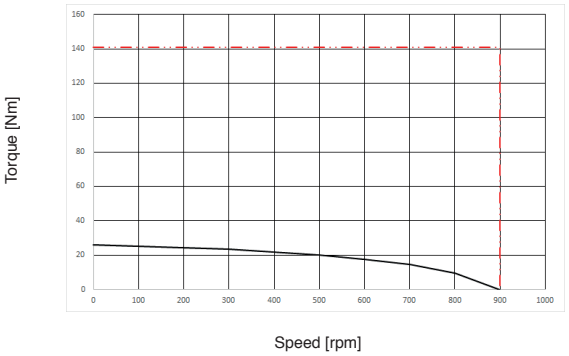
SKA DDR 148.60.50 230 Vac



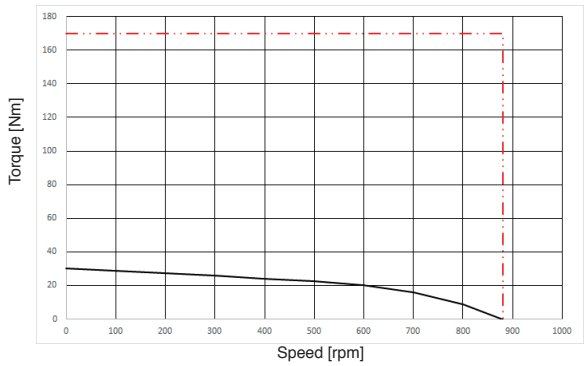
SKA DDR 148.60.50 400 Vac



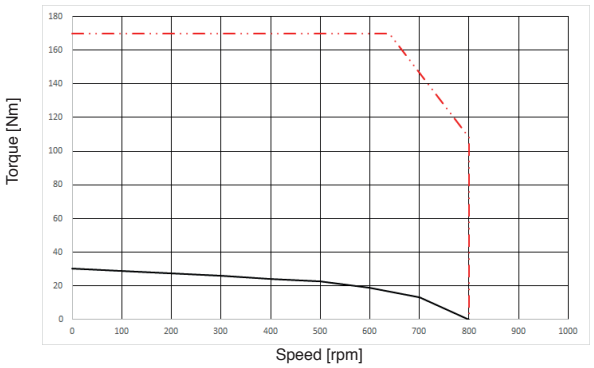
SKA DDR 148.120.19 400 Vac



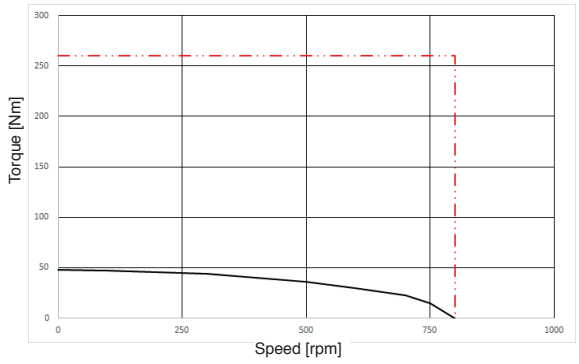
SKA DDR 148.150.19 400 Vac



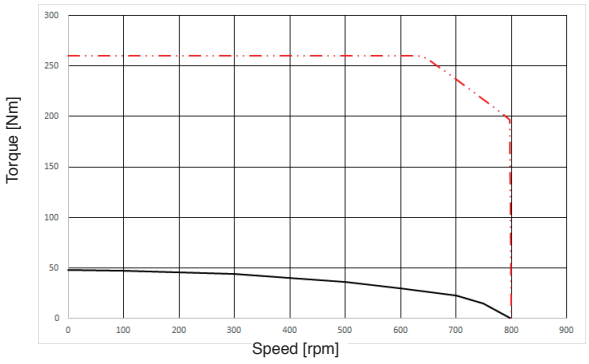
SKA DDR 148.150.50 400 Vac



SKA DDR 148.240.19 400 Vac



SKA DDR 148.240.50 400 Vac



CONTINUOUS DUTY @ RATED VOLTAGE

INTERMITTENT DUTY @ RATED VOLTAGE

SKA DDR 245 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	28	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 245.30.41.19	SKA DDR 245.30.41.50	SKA DDR 245.30.41.51	SKA DDR 245.30.41.52	SKA DDR 245.30.41.53
Stall torque	Nm	41	41	41	41	41
Peak torque	Nm	128	128	128	128	128
Stall current	Arms	10,3	7,32	4,36	2,61	1,31
Peak current	Arms	38,6	27,4	16,1	9,7	4,8
Maximum speed @230 Vac 3phase	rpm	750	500	300	180	90
Maximum speed @400 Vac 3phase	rpm	-	800	500	300	90
Torque constant ± 5%	Nm/Arms	3,3	4,7	7,9	13,2	26,4
Voltage constant ± 5%	Vrms/krpm	240	340	570	950	1900
Phase/phase resistance ± 5%	Ohm	0,76	1.6	4,2	12,5	44
Phase/phase inductance	mH	8,0	15	42	106	370
Electrical time constant	msec	10,4	10,4	10,0	10,4	8,4
Thermal resistance	°C/W	0,58	0,58	0,58	0,58	0,58

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 610x610x20mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 245.60.70.19	SKA DDR 245.60.70.50	SKA DDR 245.60.70.51	SKA DDR 245.60.70.52	SKA DDR 245.60.70.53
Stall torque	Nm	70	70	70	70	70
Peak torque	Nm	241	241	241	241	241
Stall current	Arms	17,5	12,5	7,45	4,46	2,23
Peak current	Arms	73,9	51,5	30,9	18,2	9,1
Maximum speed @230 Vac 3phase	rpm	750	500	300	180	90
Maximum speed @400 Vac 3phase	rpm	-	800	500	300	150
Torque constant ± 5%	Nm/Arms	3,3	4,7	7,9	13,2	26,4
Voltage constant ± 5%	Vrms/krpm	240	340	570	950	1900
Phase/phase resistance ± 5%	Ohm	0,31	0,76	2,07	5,0	23
Phase/phase inductance	mH	4,4	6,5	21	65	260
Electrical time constant	msec	14,0	14,0	10,0	13,00	11,0
Thermal resistance	°C/W	0,49	0,49	0,49	0,49	0,49

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 610x610x20mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 245 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	28	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 245.90.93.51	SKA DDR 245.90.93.52	SKA DDR 245.90.93.53
Stall torque	Nm	93	93	93
Peak torque	Nm	350	350	350
Stall current	Arms	9,89	5,92	2,96
Peak current	Arms	44,7	26,5	13,2
Maximum speed @230 Vac 3phase	rpm	300	180	90
Maximum speed @400 Vac 3phase	rpm	500	300	150
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4
Voltage constant ± 5%	Vrms/krpm	570	950	1900
Phase/phase resistance ± 5%	Ohm	1,14	4,32	14,3
Phase/phase inductance	mH	18	40	142
Electrical time constant	msec	15,8	15,8	15,8
Thermal resistance	°C/W	0,42	0,42	0,42

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

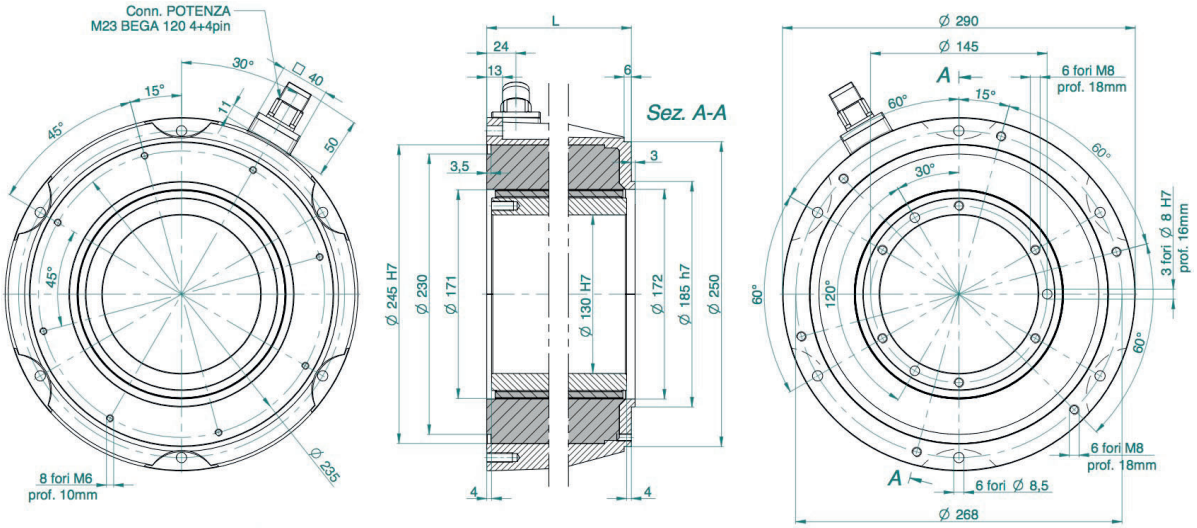
Output continuous rating with 610x610x20mm heat sink flange coupling and with top flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 245.120.115.51	SKA DDR 245.120.115.52	SKA DDR 245.120.115.53
Stall torque	Nm	115	115	115
Peak torque	Nm	458	458	458
Stall current	Arms	12,2	7,32	3,66
Peak current	Arms	58,6	34,6	17,3
Maximum speed @230 Vac 3phase	rpm	300	180	90
Maximum speed @400 Vac 3phase	rpm	500	300	150
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4
Voltage constant ± 5%	Vrms/krpm	570	950	1900
Phase/phase resistance ± 5%	Ohm	1,12	2,8	9,95
Phase/phase inductance	mH	9,8	27,5	135
Electrical time constant	msec	12	12	13,6
Thermal resistance	°C/W	0,38	0,38	0,38

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

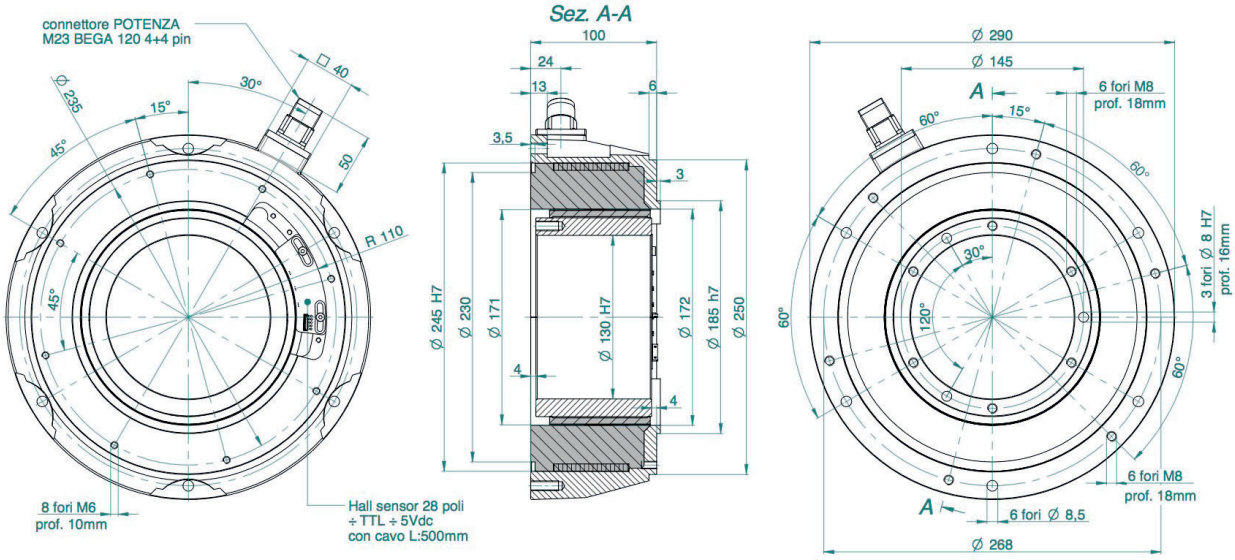
Output continuous rating with 610x610x20mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 245 FRAMELESS reference drawing 202

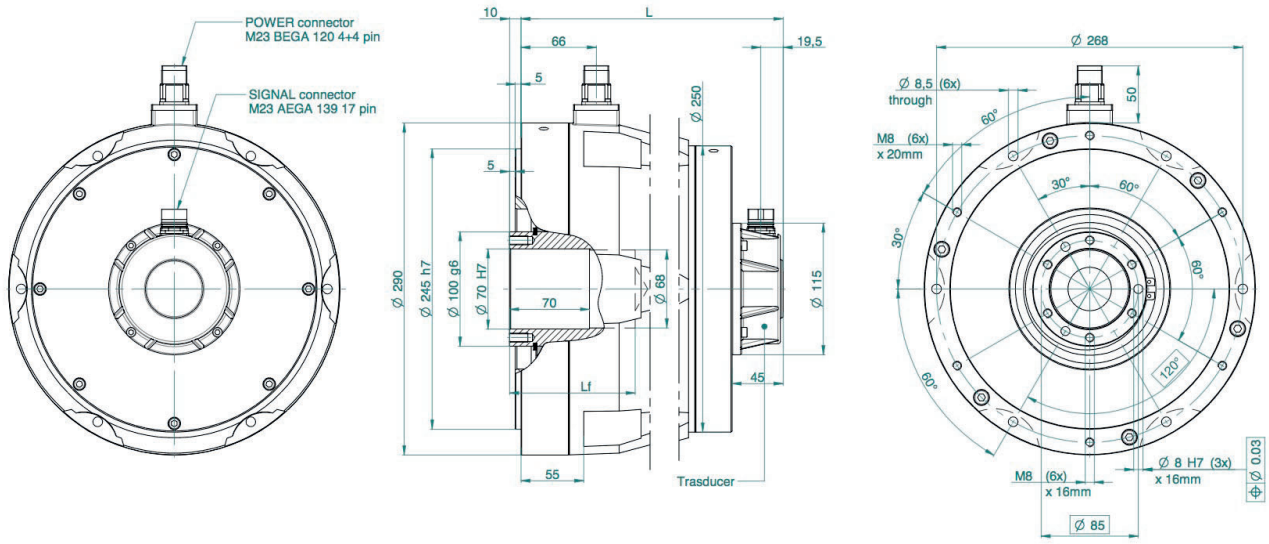


MOTOR TYPE	L (mm)
SKA DDR 245.30	70
SKA DDR 245.60	100
SKA DDR 245.90	130
SKA DDR 245.120	160

SKA DDR 245 60 FRAMELESS AND HALL SENSORS reference drawing 203

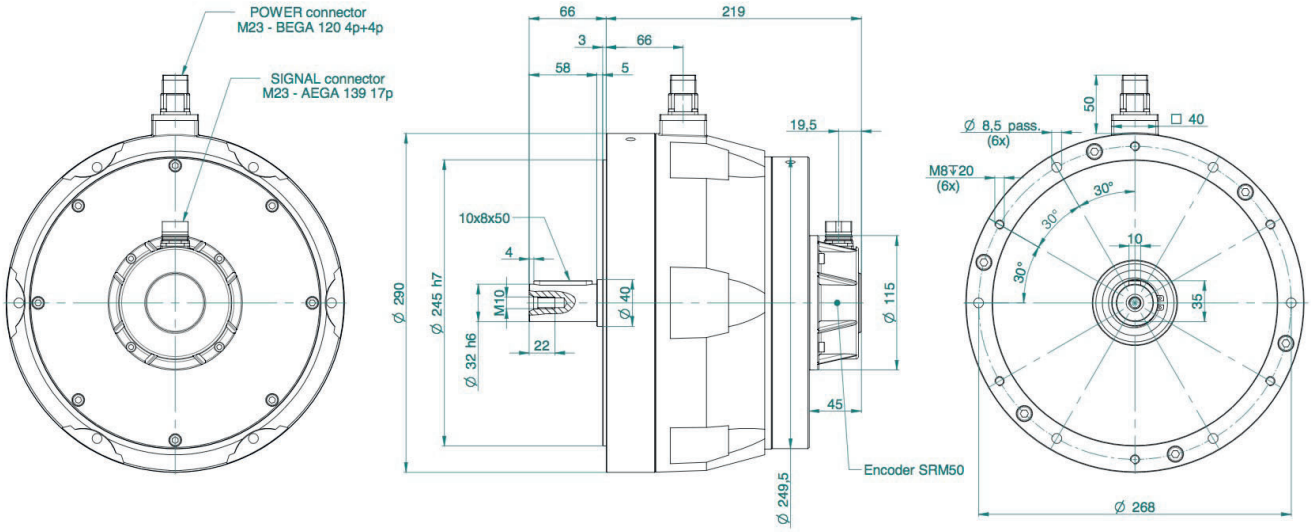


SKA DDR 245 POWER PACK HOLLOW SHAFT reference drawing 204



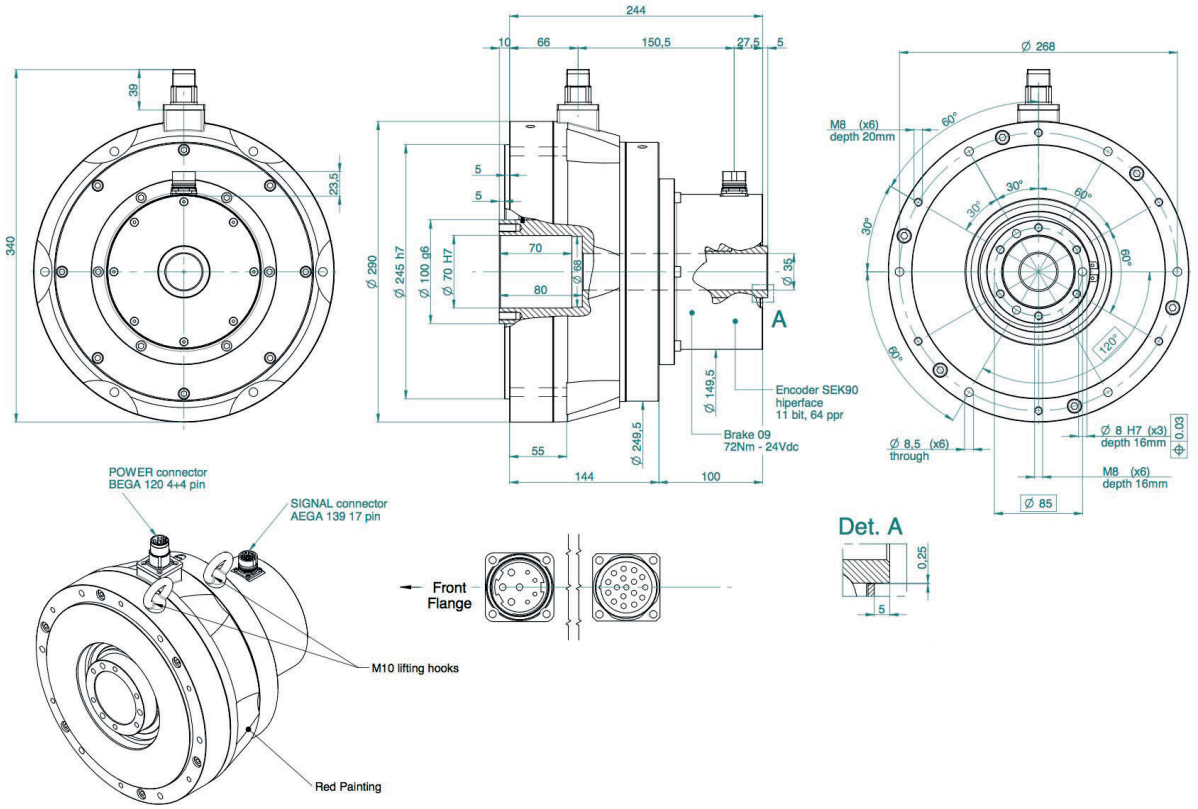
MOTOR TYPE	L (mm)	Lf (mm)
SKA DDR 245.30	189	80
SKA DDR 245.60	219	110
SKA DDR 245.90	249	140
SKA DDR 245.120	279	170

SKA DDR 245 60 POWER PACK MALE SHAFT reference drawing 205

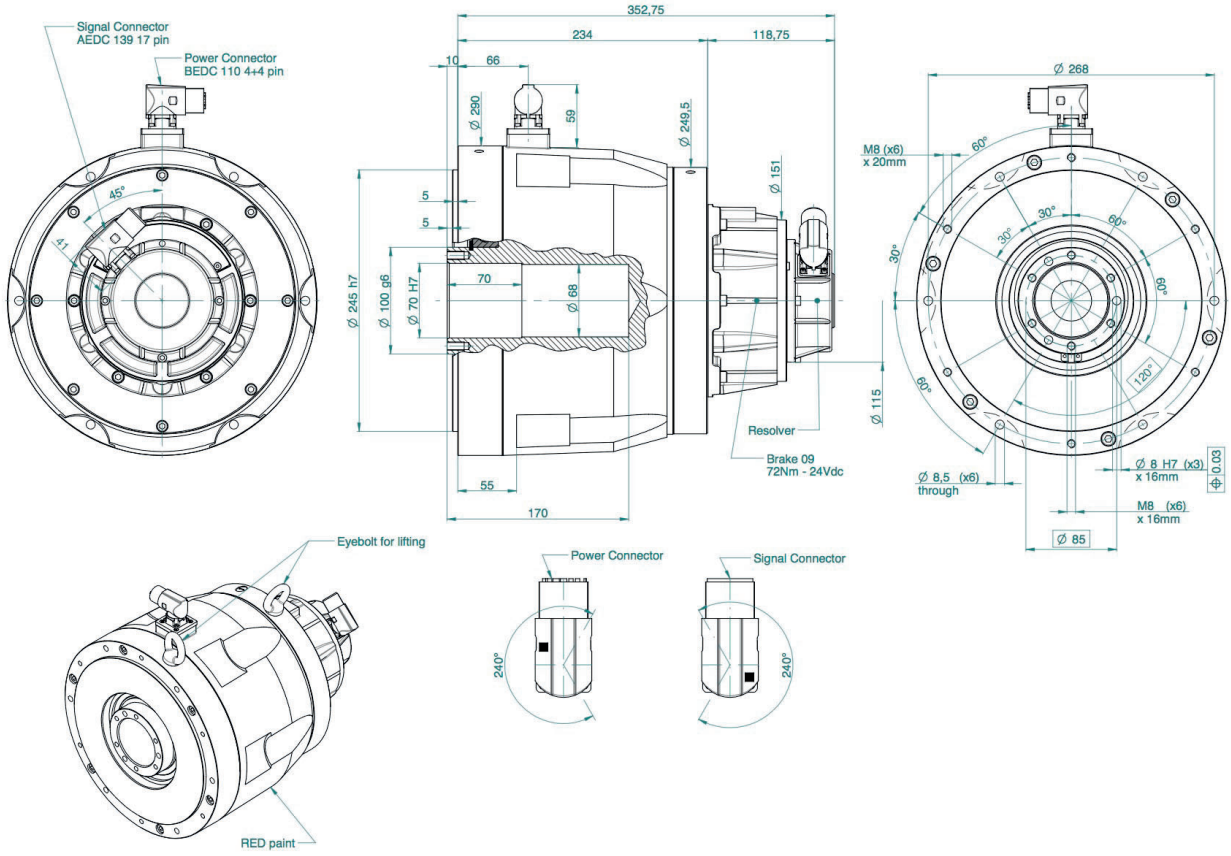


SKA DDR 245 DIMENSIONS AND CONFIGURATIONS

SKA DDR 245 30 HOLLOW THROUGH SHAFT AND BRAKE reference drawing 206

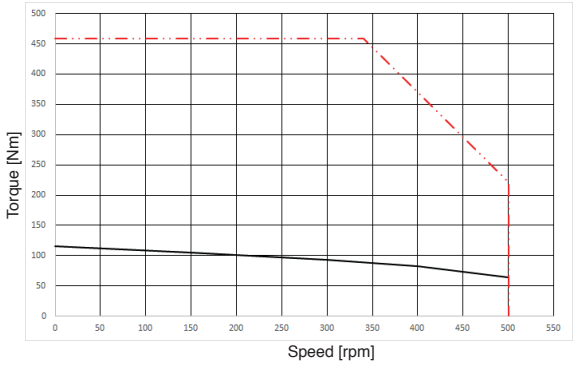


SKA DDR 245 120 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 207

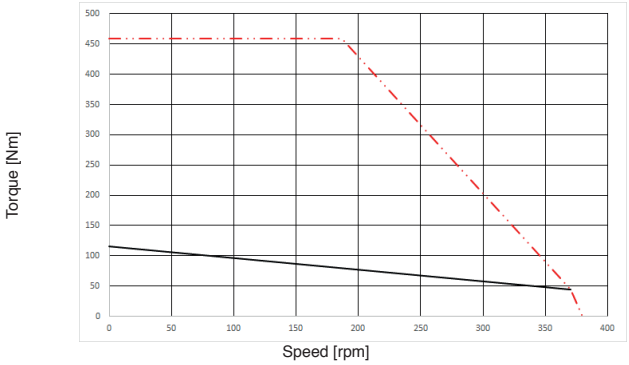


SKA DDR 245 TORQUE AND SPEED CHARTS

SKA DDR 245.120.51 400 Vac



SKA DDR 245.120.52 400 Vac



CONTINUOUS DUTY @ RATED VOLTAGE

INTERMITTENT DUTY @ RATED VOLTAGE

SKA DDR 335 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	42	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 335.30.100.51	SKA DDR 335.30.100.52	SKA DDR 335.30.100.53	SKA DDR 335.30.100.54
Stall torque	Nm	100	100	100	100
Peak torque	Nm	290	290	290	290
Stall current	Arms	10,6	6,36	3,18	1,92
Peak current	Arms	36,7	22,3	11,0	6,61
Maximum speed @230 Vac 3phase	rpm	300	180	90	50
Maximum speed @400 Vac 3phase	rpm	500	300	150	90
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4	43,8
Voltage constant ± 5%	Vrms/krpm	570	950	1900	3150
Phase/phase resistance ± 5%	Ohm	1,24	5,7	17,0	38,7
Phase/phase inductance	mH	12	34	130	376
Electrical time constant	msec	9,72	9,72	9,72	9,72
Thermal resistance	°C/W	0,26	0,26	0,26	0,26

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding coil temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 840x840x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 335.60.164.51	SKA DDR 335.60.164.52	SKA DDR 335.60.164.53	SKA DDR 335.60.164.54
Stall torque	Nm	164	164	164	164
Peak torque	Nm	550	550	550	550
Stall current	Arms	17,4	10,4	5,22	3,15
Peak current	Arms	69,5	41,8	20,8	12,5
Maximum speed @230 Vac 3phase	rpm	300	180	90	50
Maximum speed @400 Vac 3phase	rpm	500	300	150	90
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4	43,8
Voltage constant ± 5%	Vrms/krpm	570	950	1900	3150
Phase/phase resistance ± 5%	Ohm	0,52	1,9	5,80	16,4
Phase/phase inductance	mH	6,8	17	75	210
Electrical time constant	msec	13,0	13,0	13,0	12,8
Thermal resistance	°C/W	0,30	0,30	0,30	0,30

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding coil temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 840x840x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 335 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	42	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 335.90.220.51	SKA DDR 335.90.220.52	SKA DDR 335.90.220.53	SKA DDR 335.90.220.54	SKA DDR 335.90.220.55
Stall torque	Nm	220	220	220	220	220
Peak torque	Nm	800	800	800	800	624
Stall current	Arms	23,4	14,0	7,00	4,22	2,33
Peak current	Arms	101	60,6	30,3	18,3	7,62
Maximum speed @230 Vac 3phase	rpm	300	180	90	50	-
Maximum speed @400 Vac 3phase	rpm	-	300	150	90	50
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4	43,8	81,9
Voltage constant ± 5%	Vrms/krpm	570	950	1900	3150	5700
Phase/phase resistance ± 5%	Ohm	0,32	0,92	5	11,3	39
Phase/phase inductance	mH	4,4	12,9	44	150	470
Electrical time constant	msec	13,8	14,0	14,3	13,2	12,1
Thermal resistance	°C/W	0,26	0,26	0,26	0,26	0,26

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 840x840x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 335.120.270.51	SKA DDR 335.120.270.52	SKA DDR 335.120.270.53	SKA DDR 335.120.270.54	SKA DDR 335.120.270.55
Stall torque	Nm	270	270	270	270	270
Peak torque	Nm	1043	1043	1043	1043	852
Stall current	Arms	28,7	17,2	8,59	5,18	2,86
Peak current	Arms	132	79,0	39,6	23,8	10,4
Maximum speed @230 Vac 3phase	rpm	300	180	90	50	-
Maximum speed @400 Vac 3phase	rpm	-	300	150	90	50
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4	43,8	81,9
Voltage constant ± 5%	Vrms/krpm	570	950	1900	3150	5700
Phase/phase resistance ± 5%	Ohm	0,24	0,67	2,72	7,43	24,6
Phase/phase inductance	mH	3,5	10,4	42,1	116	382
Electrical time constant	msec	15,6	15,5	15,5	15,6	15,5
Thermal resistance	°C/W	0,25	0,25	0,25	0,25	0,25

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 840x840x30mm heat sink flange coupling and with top flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 335 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	42	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

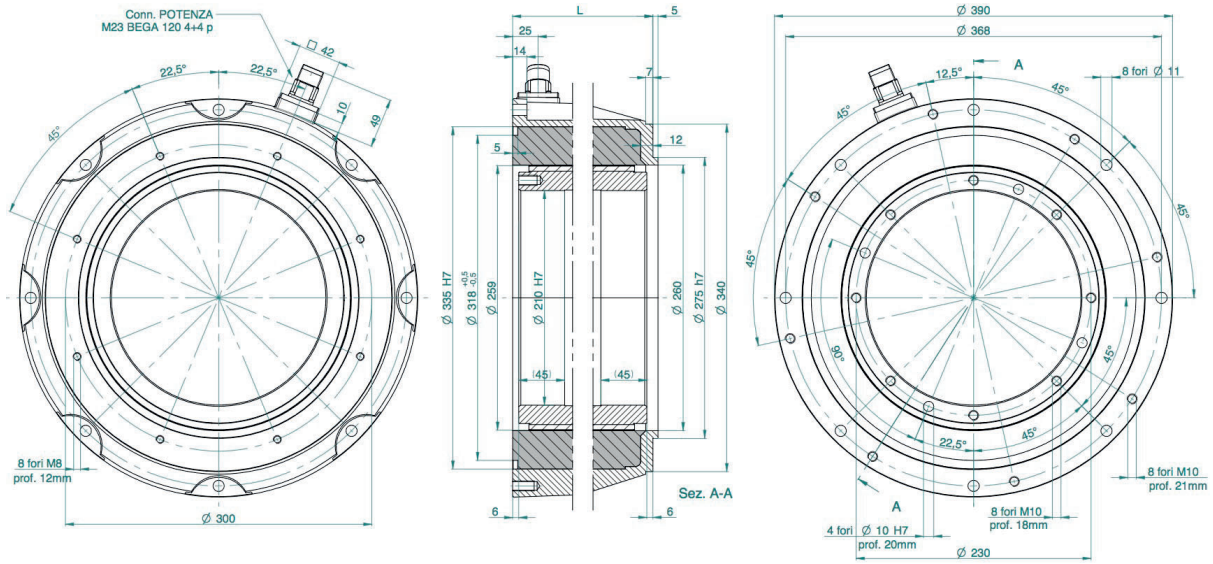
		SKA DDR 335.150.320.51	SKA DDR 335.150.320.52	SKA DDR 335.150.320.53	SKA DDR 335.150.320.54	SKA DDR 335.150.320.55
Stall torque	Nm	320	320	320	320	320
Peak torque	Nm	1290	1290	1290	1290	1097
Stall current	Arms	34,0	20,4	10,2	6,14	3,39
Peak current	Arms	163	97,7	48,9	29,4	13,4
Maximum speed @230 Vac 3phase	rpm	300	180	90	50	-
Maximum speed @400 Vac 3phase	rpm	-	300	150	90	50
Torque constant ± 5%	Nm/Arms	7,9	13,2	26,4	43,8	81,9
Voltage constant ± 5%	Vrms/krpm	570	950	1900	3150	5700
Phase/phase resistance ± 5%	Ohm	0,19	0,7	3,1	6,8	19,2
Phase/phase inductance	mH	3,0	8	26	78	311
Electrical time constant	msec	15,8	16,2	16,2	16,2	16,2
Thermal resistance	°C/W	0,144	0,144	0,144	0,144	0,144

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 840x840x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

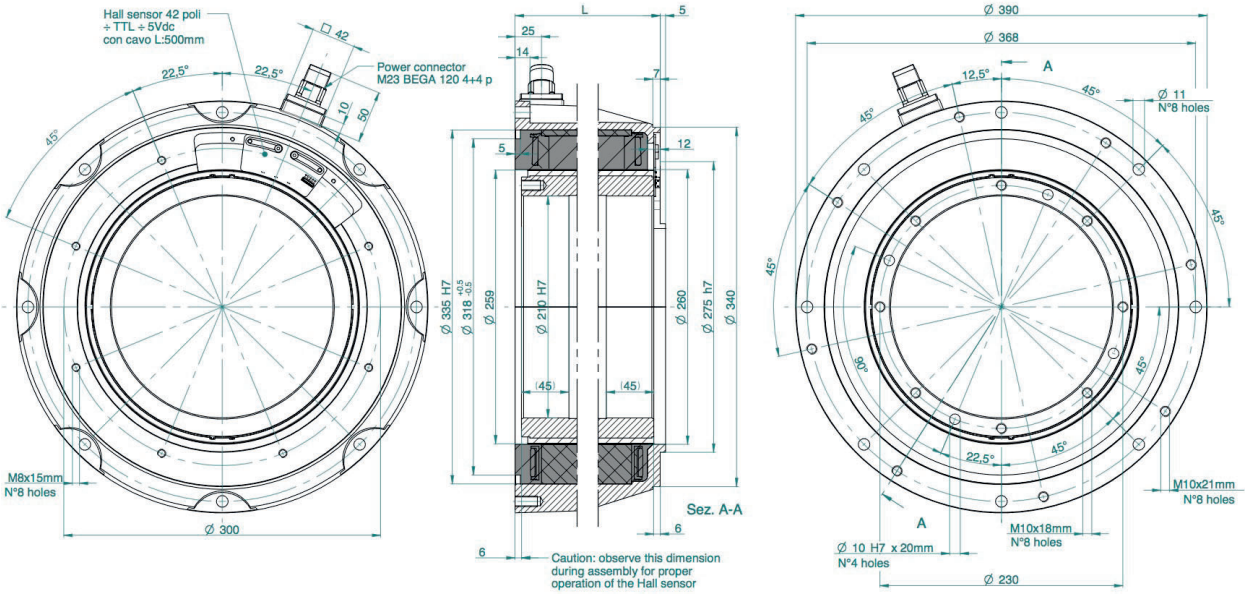
SKA DDR 335 DIMENSIONS AND CONFIGURATIONS

SKA DDR 335 FRAMELESS reference drawing 302



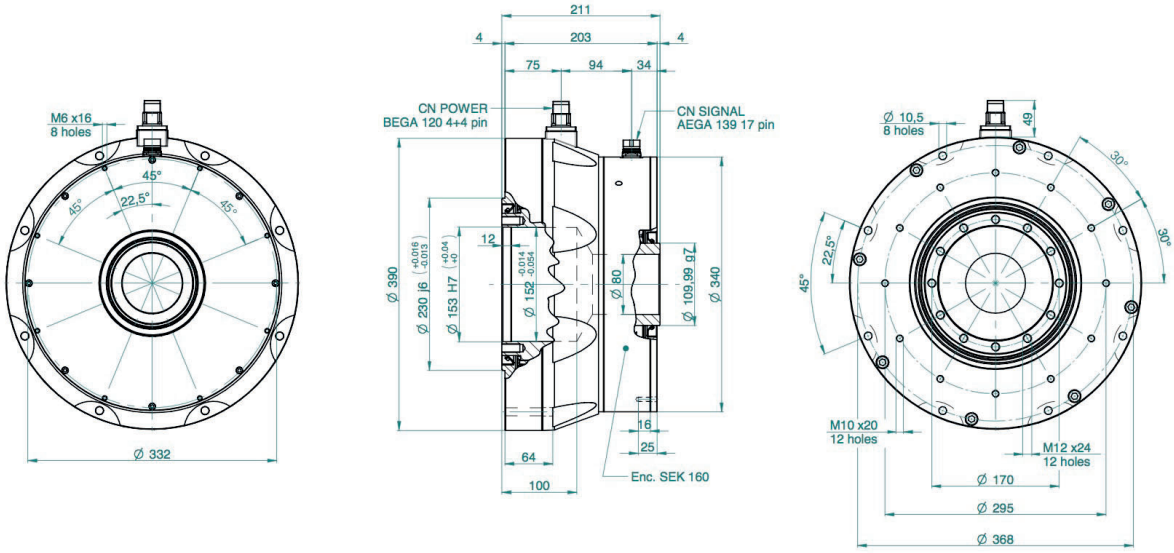
MOTOR TYPE	L (mm)
SKA DDR 335.30	82
SKA DDR 335.60	112
SKA DDR 335.90	142
SKA DDR 335.120	172
SKA DDR 335.150	202

SKA DDR 335 FRAMELESS AND HALL SENSORS reference drawing 303

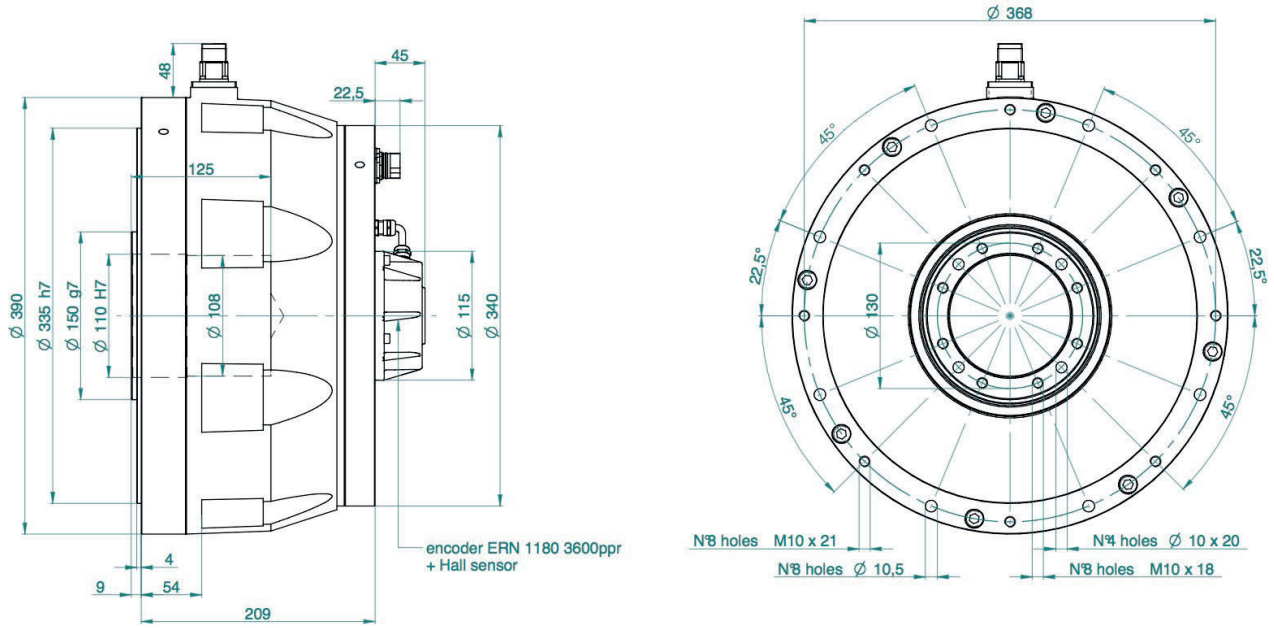


MOTOR TYPE	L (mm)
SKA DDR 335.30	82
SKA DDR 335.60	112
SKA DDR 335.90	142
SKA DDR 335.120	172
SKA DDR 335.150	202

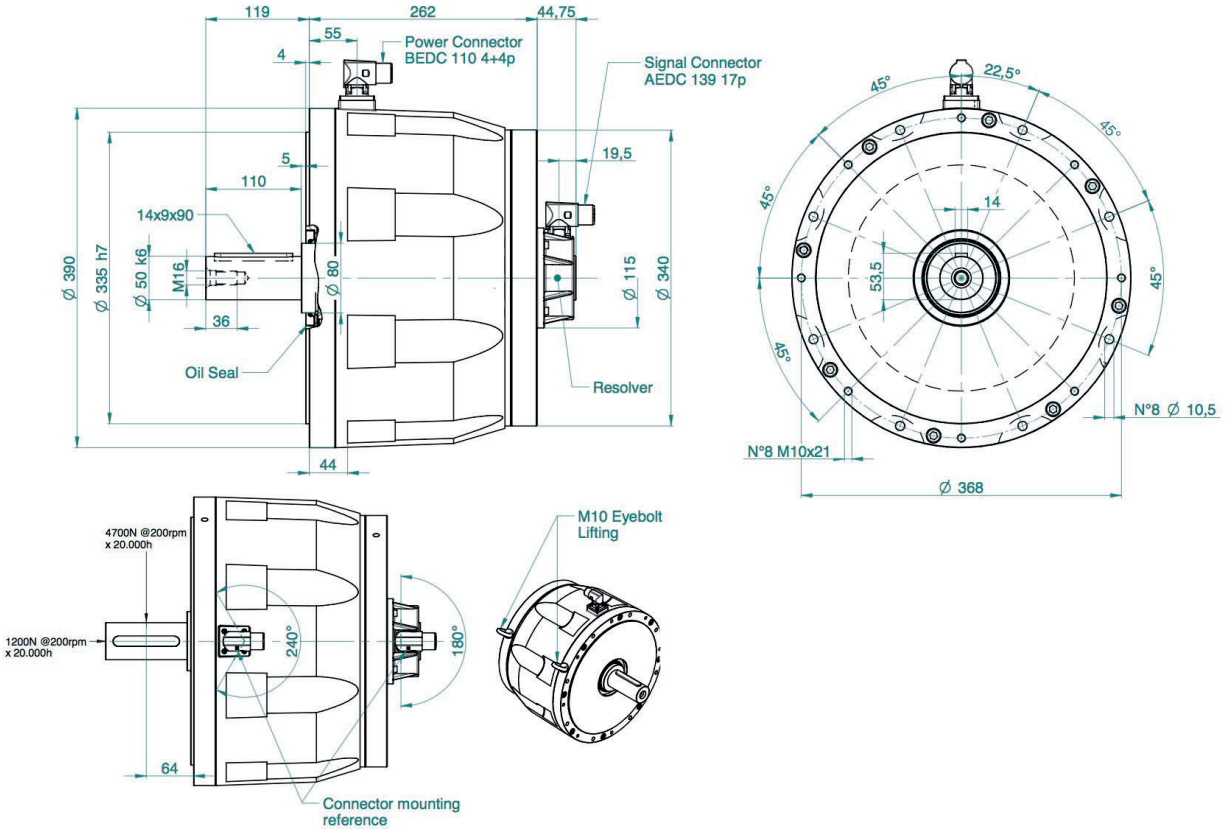
SKA DDR 335 30 POWER PACK HOLLOW THOUGH SHAFT reference drawing 304



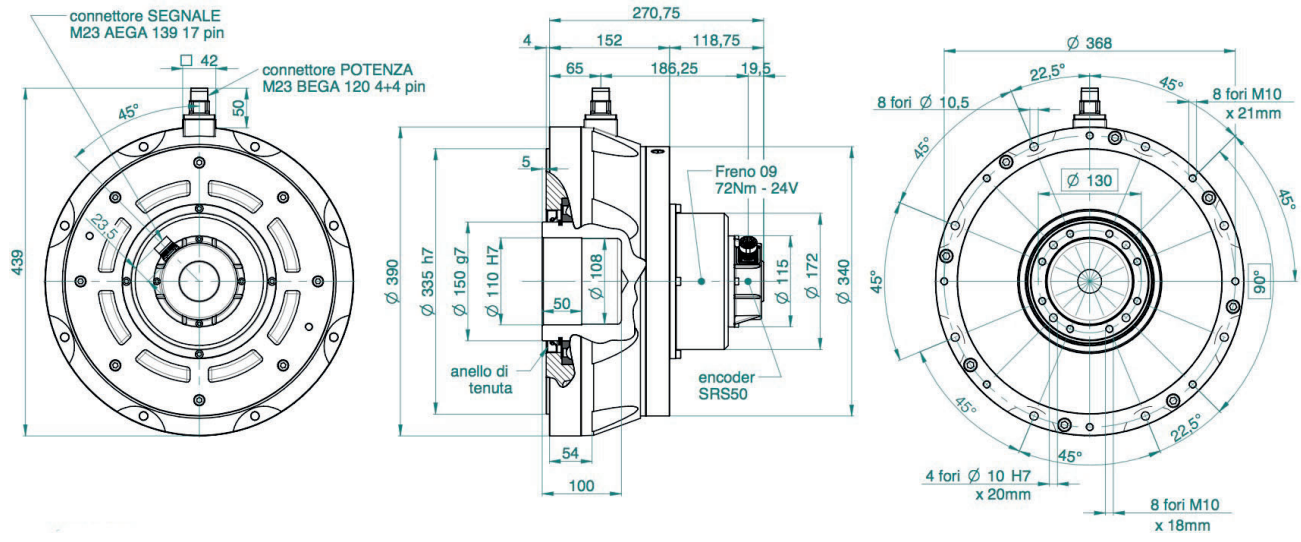
SKA DDR 335 90 POWER PACK HOLLOW SHAFT reference drawing 305



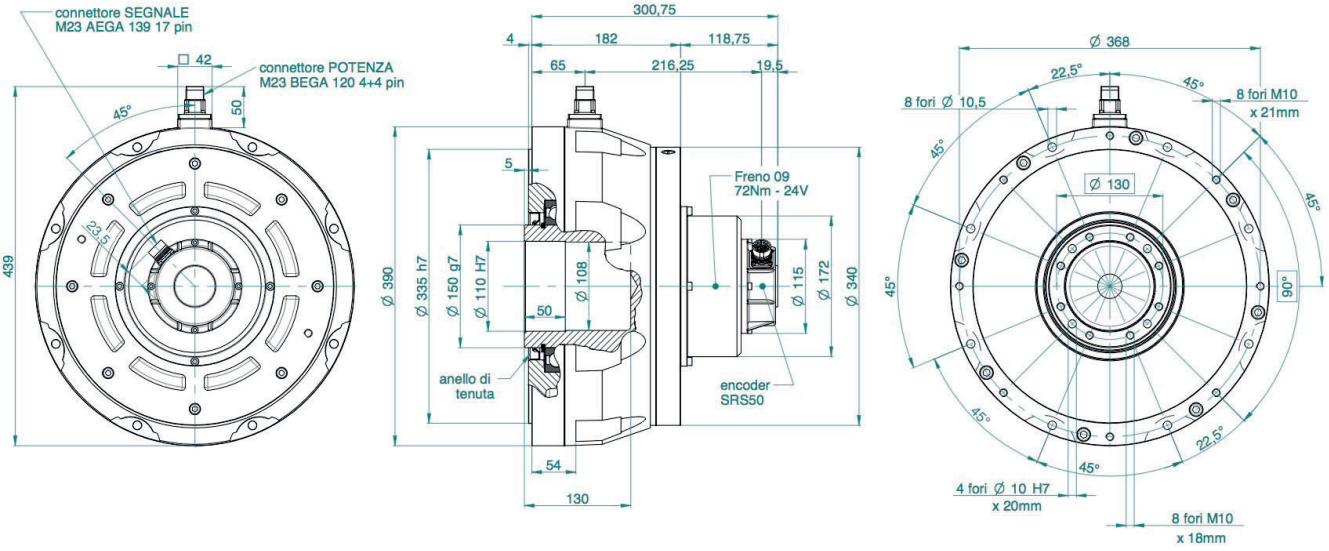
SKA DDR 335 150 POWER PACK MALE SHAFT reference drawing 306



SKA DDR 335 30 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 307

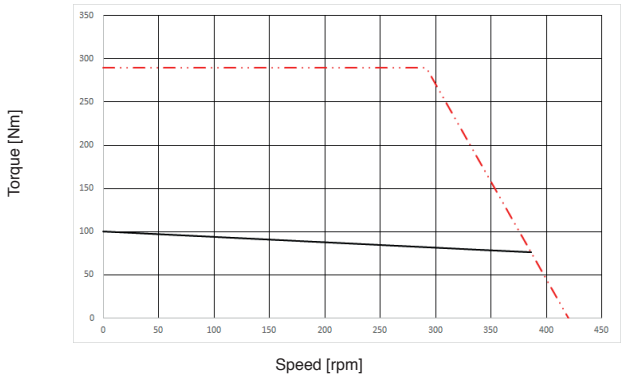


SKA DDR 335 60 POWER PACK HOLLOW SHAFT AND BRAKE reference drawing 308

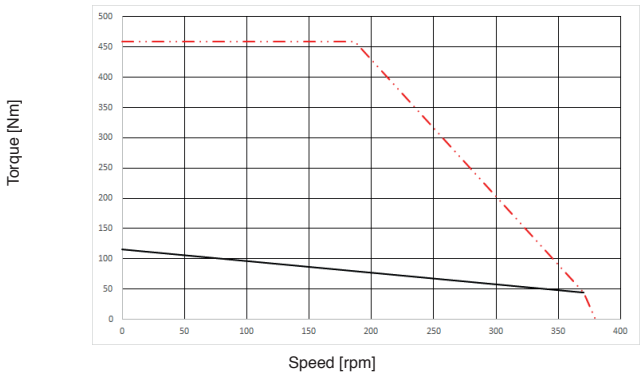


SKA DDR 335 TORQUE AND SPEED CHARTS

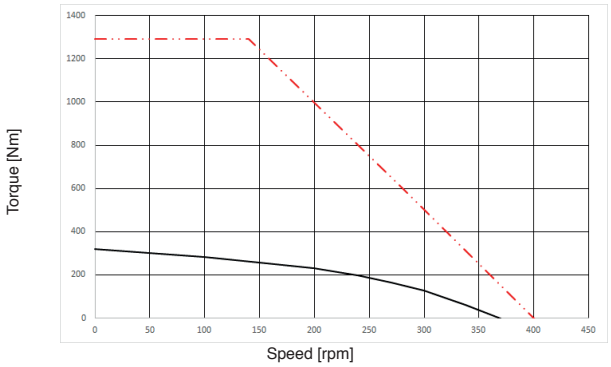
SKA DDR 335.30.52 400 Vac



SKA DDR 335.30.53 400 Vac



SKA DDR 335.150.52 400 Vac



CONTINUOUS DUTY @ RATED VOLTAGE

INTERMITTENT DUTY @ RATED VOLTAGE

SKA DDR 430 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	56	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 430.30.210.52	SKA DDR 430.30.210.53	SKA DDR 430.30.210.54	SKA DDR 430.30.210.55	SKA DDR 430.30.210.56
Stall torque	Nm	210	210	210	210	210
Peak torque	Nm	458	458	458	436	458
Stall current	Arms	13,3	6,68	4,01	2,23	9,07
Peak current	Arms	40,4	20,2	12,1	6,37	27
Maximum speed @230 Vac 3phase	rpm	180	90	50	-	100
Maximum speed @400 Vac 3phase	rpm	300	150	90	50	150
Torque constant ± 5%	Nm/Arms	11,3	22,7	37,9	68,4	23,16
Voltage constant ± 5%	Vrms/krpm	950	1900	3150	5700	1400
Phase/phase resistance ± 5%	Ohm	1,11	4,47	12,5	40,3	3,25
Phase/phase inductance	mH	16,0	66,0	183	593	22,8
Electrical time constant	msec	14,4	14,8	14,6	14,7	7,0
Thermal resistance	°C/W	0,23	0,23	0,23	0,23	0,23

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 430.60.340.52	SKA DDR 430.60.340.53	SKA DDR 430.60.340.54	SKA DDR 430.60.340.55	SKA DDR 430.60.340.56
Stall torque	Nm	340	340	340	340	340
Peak torque	Nm	868	868	868	868	868
Stall current	Arms	21,8	10,9	6,58	3,64	14,68
Peak current	Arms	76,8	38,2	22,9	12,7	37,5
Maximum speed @230 Vac 3phase	rpm	180	90	50	-	100
Maximum speed @400 Vac 3phase	rpm	300	150	90	50	150
Torque constant ± 5%	Nm/Arms	11,3	22,7	37,9	68,4	23,16
Voltage constant ± 5%	Vrms/krpm	950	1900	3150	5700	1400
Phase/phase resistance ± 5%	Ohm	0,7	2,65	5,22	16,9	1,47
Phase/phase inductance	mH	10	32	102	330	14,50
Electrical time constant	msec	12	12	19,5	19,5	9,9
Thermal resistance	°C/W	0,21	0,21	0,21	0,21	0,21

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 430 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	56	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 430.90.450.53	SKA DDR 430.90.450.54	SKA DDR 430.90.450.55	SKA DDR 430.90.450.56
Stall torque	Nm	450	450	450	450
Peak torque	Nm	1254	1254	1254	1254
Stall current	Arms	14,3	8,63	4,78	19,43
Peak current	Arms	55,2	33,1	18,3	54,1
Maximum speed @230 Vac 3phase	rpm	90	50	-	100
Maximum speed @400 Vac 3phase	rpm	150	90	50	150
Torque constant ± 5%	Nm/Arms	22,7	37,9	68,4	23,16
Voltage constant ± 5%	Vrms/krpm	1900	3150	5700	1400
Phase/phase resistance ± 5%	Ohm	1,19	4,14	16,4	0,98
Phase/phase inductance	mH	26,2	73,0	200	9,8
Electrical time constant	msec	22,0	22,1	22,0	22,0
Thermal resistance	°C/W	0,136	0,136	0,136	0,136

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

		SKA DDR 430.120.560.53	SKA DDR 430.120.560.54	SKA DDR 430.120.560.55
Stall torque	Nm	560	560	560
Peak torque	Nm	1649	1649	1649
Stall current	Arms	17,82	10,7	5,94
Peak current	Arms	72,6	43,5	24,1
Maximum speed @230 Vac 3phase	rpm	90	50	-
Maximum speed @400 Vac 3phase	rpm	150	90	50
Torque constant ± 5%	Nm/Arms	22,7	37,9	68,4
Voltage constant ± 5%	Vrms/krpm	1900	3150	5700
Phase/phase resistance ± 5%	Ohm	1,37	2,42	7,80
Phase/phase inductance	mH	26	57	183
Electrical time constant	msec	19	23,6	23,5
Thermal resistance	°C/W	0,17	0,17	0,17

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.

Output continuous rating with 1000x1000x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

SKA DDR 430 RATINGS AND SPECIFICATIONS

TIME RATING	Continuous	AMBIENT TEMPERATURE	0 to 40 °C
INSULATION CLASS	F	AMBIENT HUMIDITY	20 to 80% RH (non condensing)
POLES	42	THERMAL PROTECTION	PT 1000
INSULATION SYSTEM UL /CSA	cURus , DV155J File nr.:E216686	CE certified	

		SKA DDR 430.150.660.54	SKA DDR 430.150.660.55
Stall torque	Nm	660	660
Peak torque	Nm	2025	2025
Stall current	Arms	12,7	7,00
Peak current	Arms	53,4	29,6
Maximum speed @230 Vac 3phase	rpm	50	-
Maximum speed @400 Vac 3phase	rpm	90	50
Torque constant ± 5%	Nm/Arms	37,9	68,4
Voltage constant ± 5%	Vrms/krpm	3150	5700
Phase/phase resistance ± 5%	Ohm	2,03	6,21
Phase/phase inductance	mH	47,3	152
Electrical time constant	msec	23,3	24,5
Thermal resistance	°C/W	0,15	0,15

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.winding

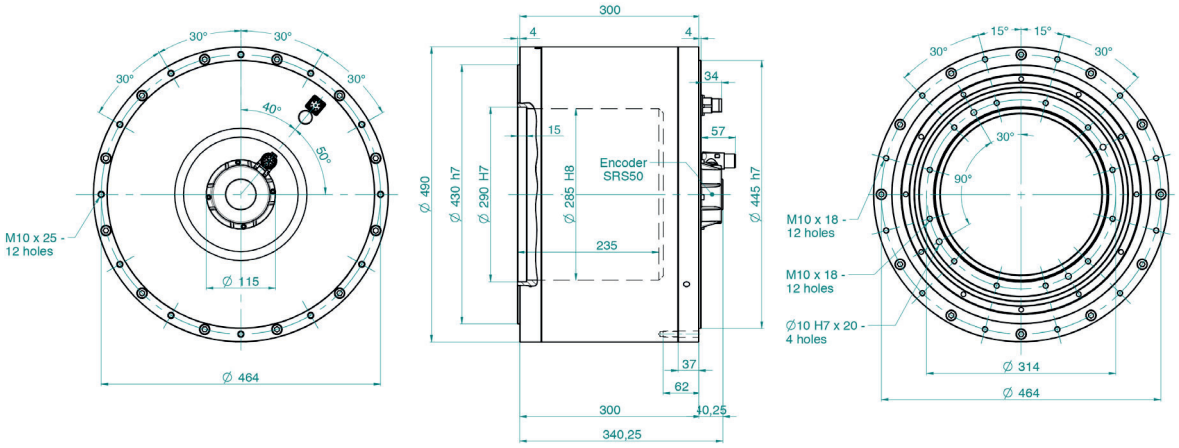
Output continuous rating with 1000x1000x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

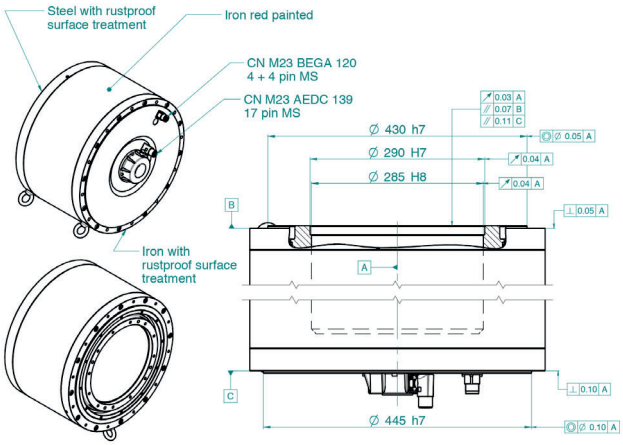
		SKA DDR 430.180.760.54	SKA DDR 430.180.760.55
Stall torque	Nm	760	760
Peak torque	Nm	2400	2400
Stall current	Arms	14,6	8,06
Peak current	Arms	64	35,1
Maximum speed @230 Vac 3phase	rpm	50	-
Maximum speed @400 Vac 3phase	rpm	90	50
Torque constant ± 5%	Nm/Arms	37,6	68,4
Voltage constant ± 5%	Vrms/krpm	3150	5700
Phase/phase resistance ± 5%	Ohm	2,5	8,5
Phase/phase inductance	mH	32	105
Electrical time constant	msec	12,8	12,5
Thermal resistance	°C/W	0,10	0,08

Values and torque/speed specifications here detailed are obtained with the SKA DDR coupled to FLEXI PRO drive, with a winding temperature of 100°C.
All others data are with a coil temperature of 25°C.winding

Output continuous rating with 1000x1000x30mm heat sink flange coupling and with front flange not sealed.
Derating must be considered in some Power Pack configuration.

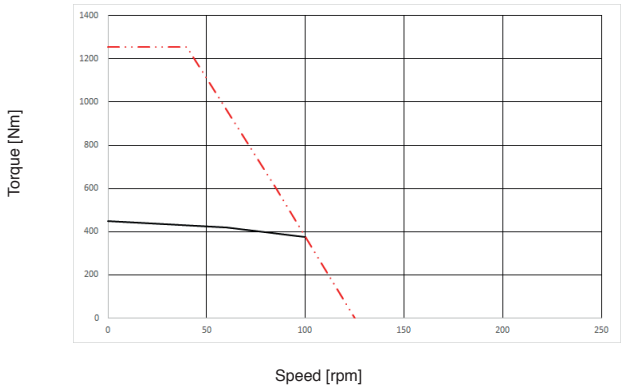
SKA DDR 430 BLIND HOLLOW SHAFT reference drawing 402



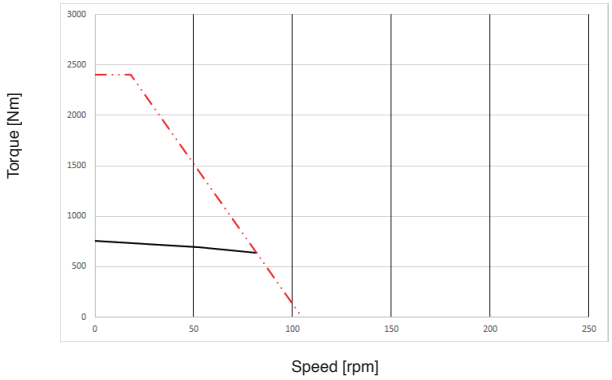


SKA DDR 430 TORQUE AND SPEED CHARTS

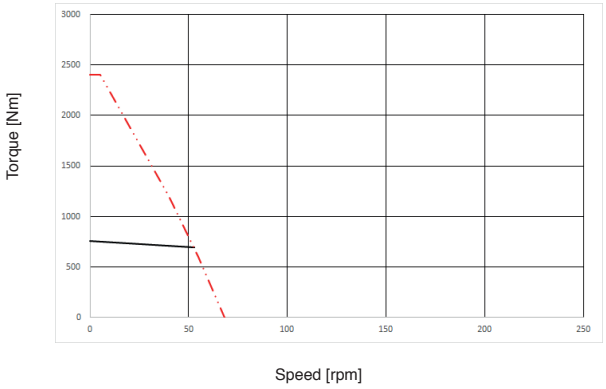
SKA DDR 430.90.54 400 Vac



SKA DDR 430.180.54 400 Vac



SKA DDR 430.180.55 400 Vac



CONTINUOUS DUTY @ RATED VOLTAGE

INTERMITTENT DUTY @ RATED VOLTAGE

BRAKE FEATURES

		SKA DDR 090	
Static Torque @20°C	Nm	2	4,5
Moment of Inertia	Kg cm²	0,050	0,220
Rated Current	A	0,46	0,5
Input Power	W	11	12
Engaging Time	ms	6	7
Release Time	ms	25	35
Operating Voltage		24 Vdc +6% - 10% Stabilized	

		SKA DDR 148	
Static Torque @20°C	Nm	18	36
Moment of Inertia	Kg cm²	1,9	6,21
Rated Current	A	1	1,08
Input Power	W	24	26
Engaging Time	ms	10	22
Release Time	ms	50	90
Operating Voltage		24 Vdc +6% - 10% Stabilized	

		SKA DDR 245 - 335 - 430
Static Torque @20°C	Nm	72
Moment of Inertia	Kg cm²	15,3
Rated Current	A	1,66
Input Power	W	40
Engaging Time	ms	7
Release Time	ms	140
Operating Voltage		24 Vdc +6% - 10% Stabilized

THERMAL PROTECTION FEATURES

PT 1000

Thermal protection features

Type	PT 1000-R8/2-2F
Sensor	Sensor RTD (Platinum Resistance Temperature Detectors) according to DIN EN 60751
Temperature range	from -40 °C to 250 °C
Accuracy	$\Delta t = \pm (0{,}3 + 0{,}04t)$ °C

°C	Resistance (Ω)
-40	843
-30	882
-20	922
-10	961
0	1000
10	1039
20	1078
30	1117
40	1155
50	1194
60	1232
70	1271
80	1309
90	1347
100	1385
110	1423
120	1461
130	1498
140	1536
150	1573
160	1611