

BRUSHLESS

- Golf Car
- Tractor
- Minivan
- Forklift
- LSV
- Go Cart
- Pedicab
- Scooter
- Bike

DC MOTOR & DRIVES



ADLEEPPOWER®
SINCE 1974 ISO 9001

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BRUSHLESS DC SERVO MOTOR & DRIVES

Drive Functions

- Re-Generated braking
- Speed control / torque control
- Buzzer signals
- Key switch
- Safety switch
- Forward / Reverse
- Fault LED

Drive protections

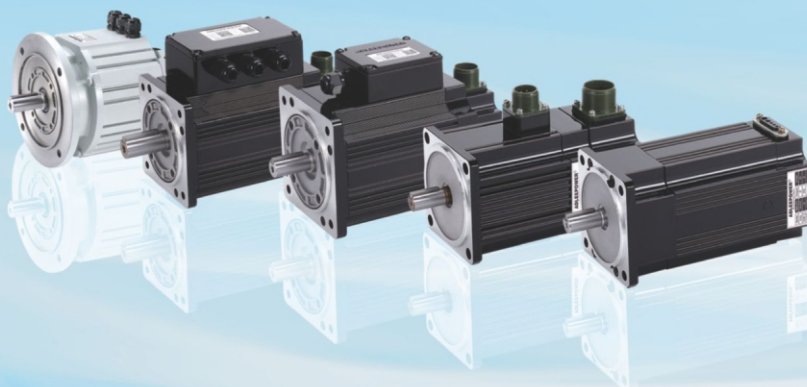
- Over current protection
- Motor over heat protection
- Low voltage protection
- Stall protection
- Drive over heat protection
- Motor phase to phase short circuit protection
- Accelerator initial detection

Brushless DC Servo Motor Specification (Torque Control)

Motor Model No.		BM-180	BM-370	BM-400E	BM-750E	BM-1500E
Drive Model No.		SWAN 2	SWAN 2	SWAN5A	SWAN6B	SWAN6A
Input Voltage	VDC	24	24	48	48	48
Rate Power	W	180	370	400	750	1500
Rate Torque	Kg-cm	9.0	12.0	9.0	16.2	34.0
Max. Torque	Kg-cm	27	40	35	70	130
Rate Current	A	9.0	19.0	9.7	18.6	36.0
Max. Current	A	25	50	29	57	106
Rate Speed	RPM	2000	3000	4300	4500	4300
Max. Speed	RPM	2500	3700	4700	4800	4600
Max. Power	W	280	650	800	2100	3700
Motor Dimensions		Fig.1	Fig.3	Fig.5	Fig.7	Fig.8
Drive Dimensions		Fig.A	Fig.A	Fig.C	Fig.D	Fig.E

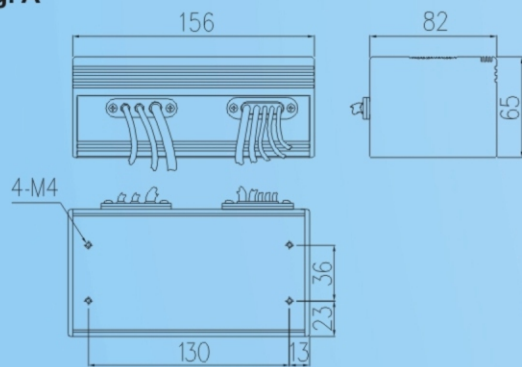
Motor Model No.		BM-2200E	BM-3700E	BM-5000ES	BM-5000ER	BM-5500E
Drive Model No.		SWAN6A SWAN9A	SWAN9A SWAN9B	SWAN9B	SWAN9B	SWAN9C
Input Voltage	VDC	48	48	48	48	72
Rate Power	W	2200	3700	5000	5000	5500
Rate Torque	Kg-cm	48.7	90	72	250	134
Max. Torque	Kg-cm	124/180	150/215	130	350	300
Rate Current	A	48	87	114	140	89
Max. Current	A	106/140	140/200	200	220	200
Rate Speed	RPM	4400	4000	6500	1900	4000
Max. Speed	RPM	4800	4700	7000	6000	4600
Max. Power	W	3700/5200	5200/5800	8000	5700	10500
Motor Dimensions		Fig.8	Fig.9	Fig.11	Fig.12	Fig.10
Drive Dimensions		Fig.E/F	Fig.F	Fig.F	Fig.F	Fig.F

Note: The drive functions and protections are varied in different models.

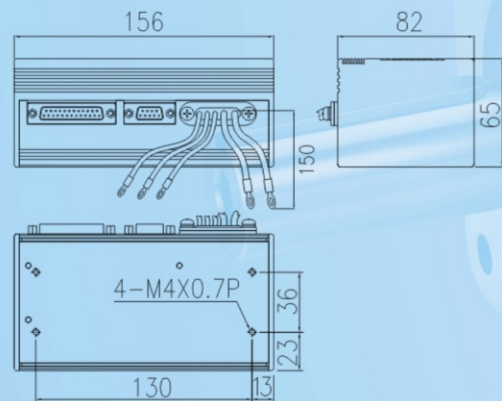


Drive Dimensions

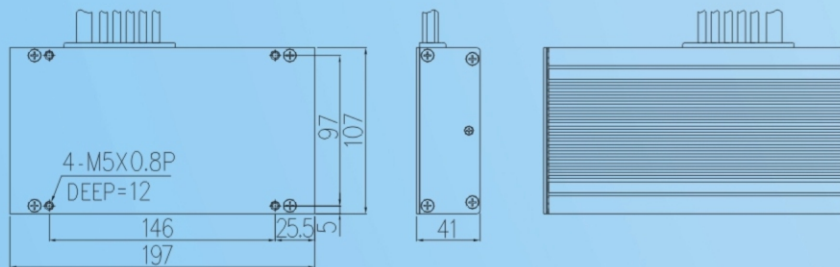
• Fig. A



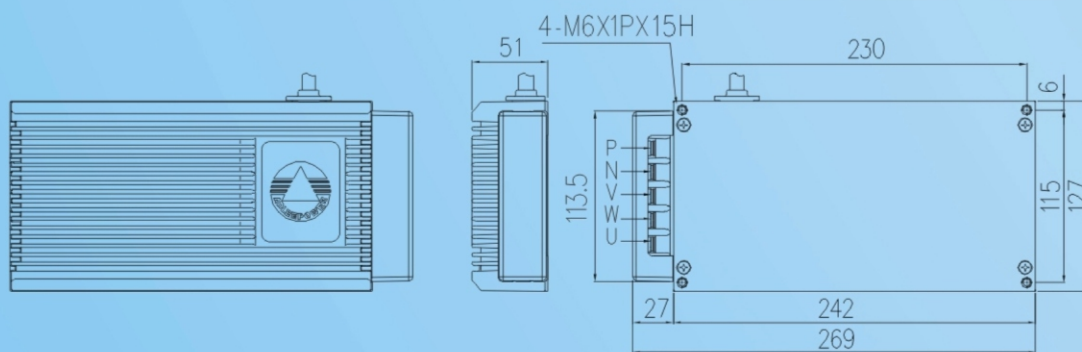
• Fig. B



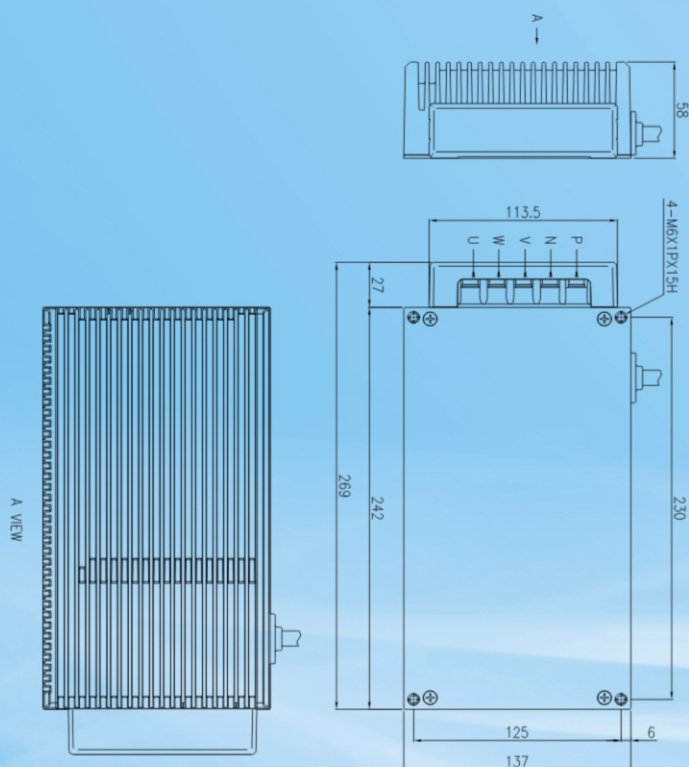
• Fig. C



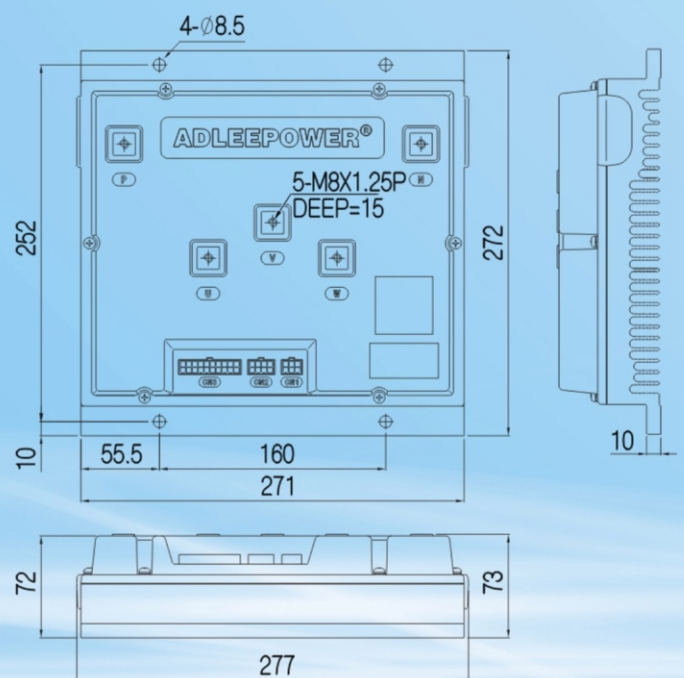
• Fig. D



• Fig. E

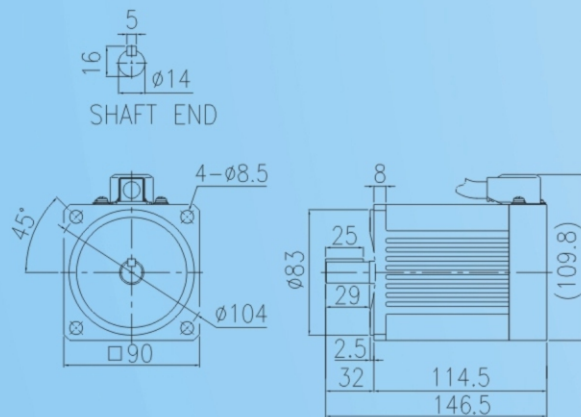


• Fig. F

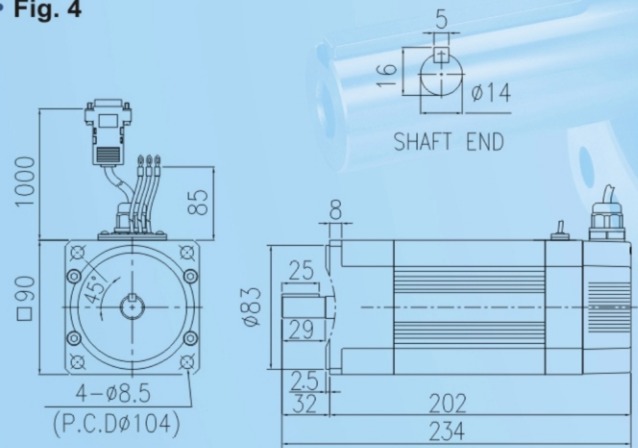


Motor Dimensions

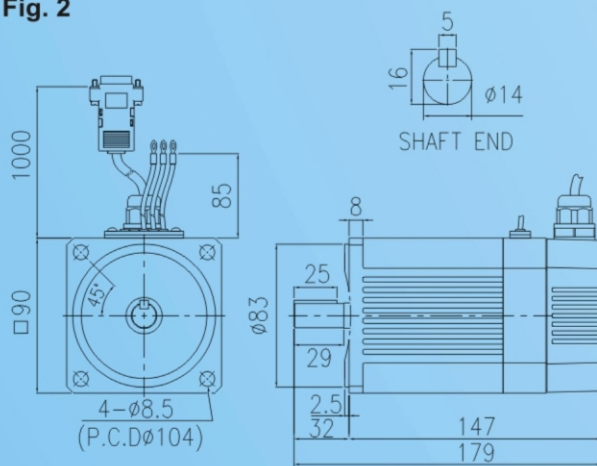
• Fig. 1



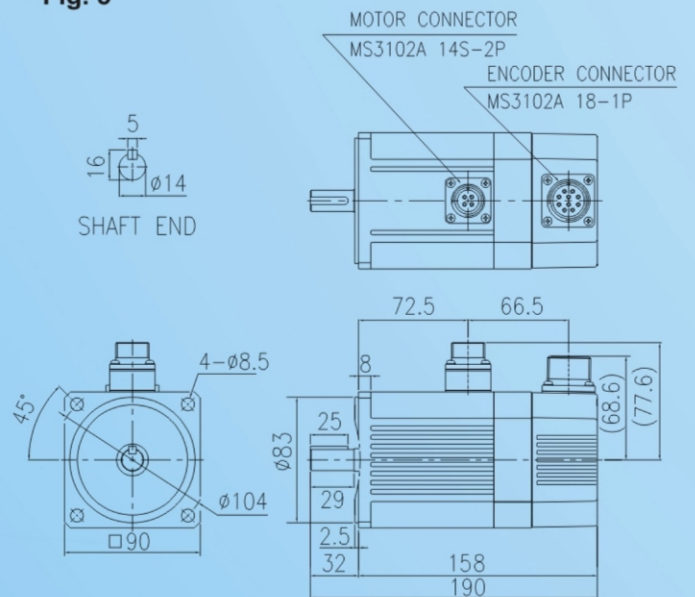
• Fig. 4



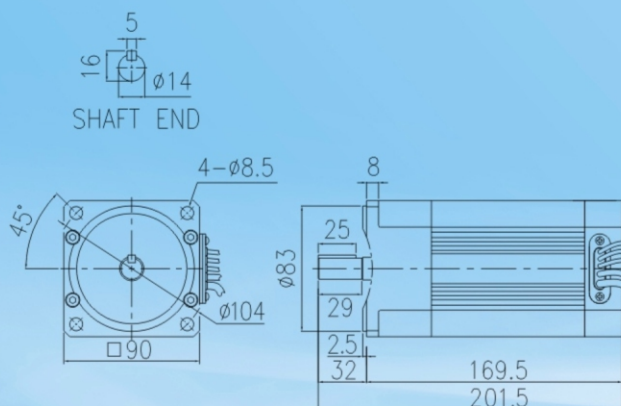
• Fig. 2



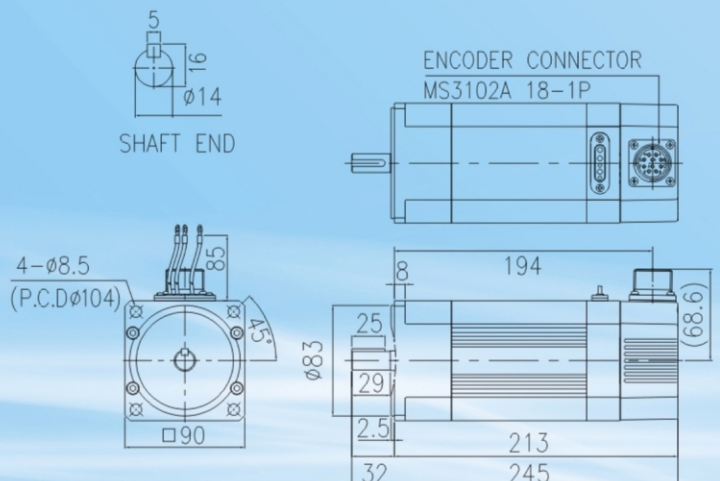
• Fig. 5



• Fig. 3

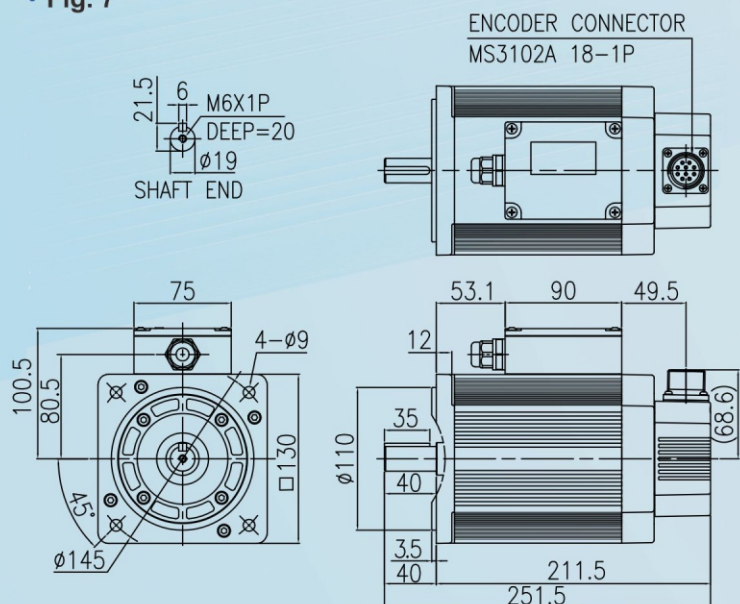


• Fig. 6

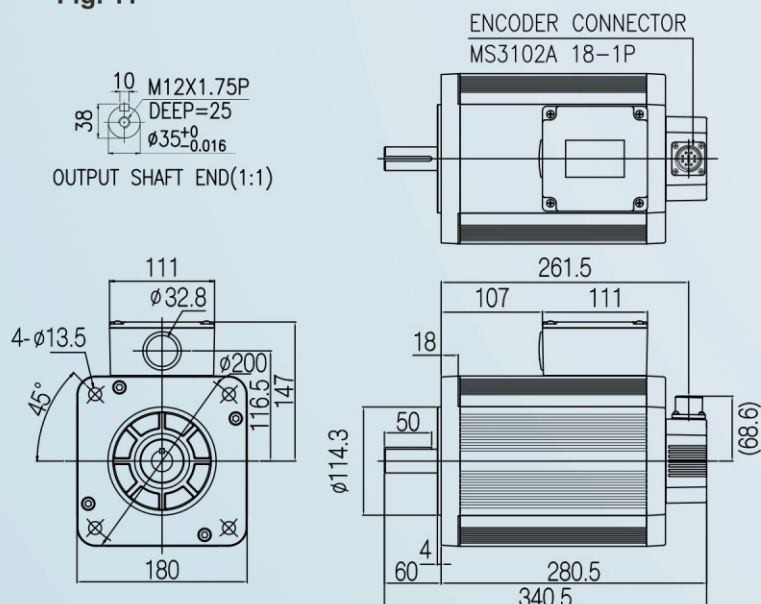


Motor Dimensions

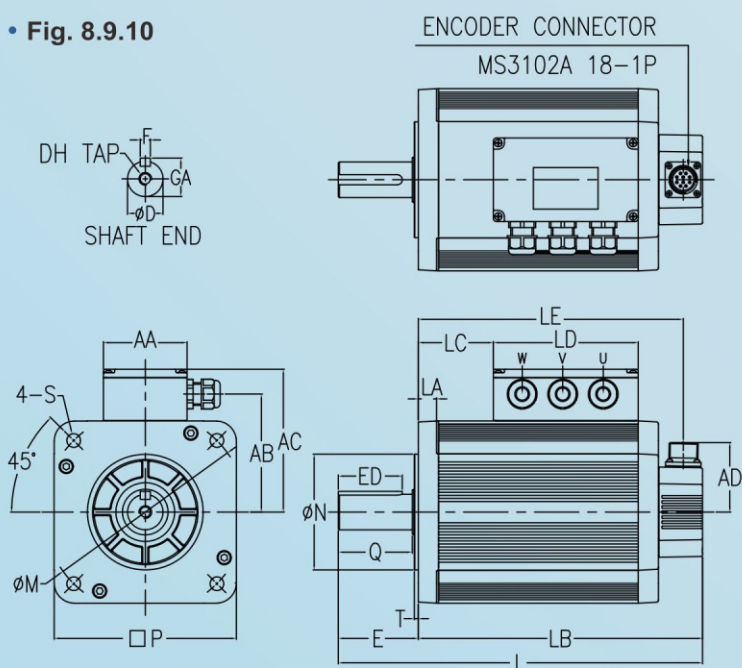
• Fig. 7



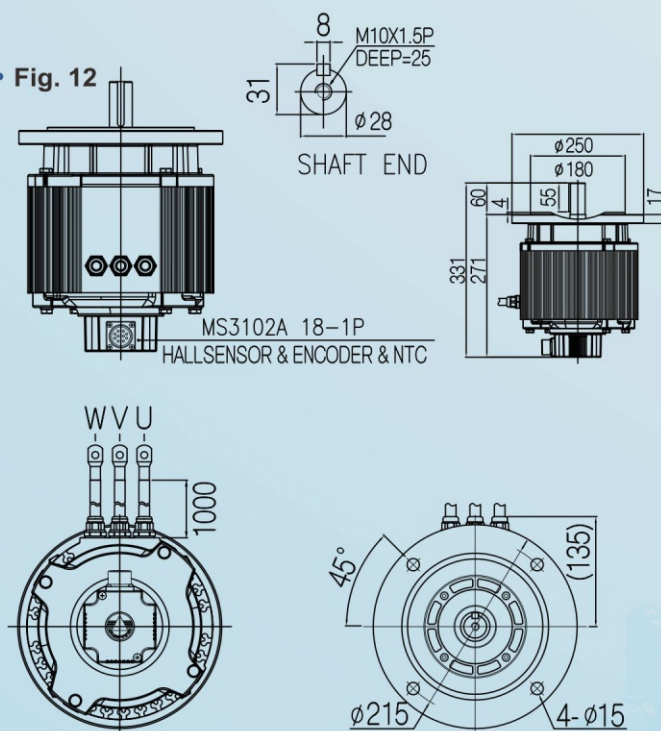
• Fig. 11



• Fig. 8.9.10



• Fig. 12



UNIT : mm

Fig.	□P	ØM	ØS	ØN	T	L	LA	LB	LC	LD	LE	AA	AB	AC	AD	SHAFT END						
																ED	Q	E	ØD	GA	F	DH
Fig.8	130	145	9	110	3.5	288.5	12	238.5	27		219.5		93.5	116		45	50	50	24	27	8	M8X24L
Fig.9						359.5		280.5	74		261.5	82.5				63	73	79	35	38	10	M12X25L
Fig.10	180	200	13.5	114.3	4	454.5	18	341.5	135		322.5		116.5	141	68.6	90	108.5	113	42	45	12	M16X32L

BRUSHLESS DC SERVO MOTOR & DRIVES

Drive Functions

- Close loop speed control
- Acc./Dec. time
- Multi-stage speed
- SON servo ON switch
- Source of speed command (Vref.analog, Digital, Communication)
- DI multi-function signal input
- DO multi-function signal output

Drive protections

- Over current protection
- Over load protection
- Low voltage protection
- Over voltage protection
- Drive over heat protection
- Hall sensor error
- Motor phase to phase short circuit protection

Brushless DC Servo Motor Specification (Speed Control)

Motor Model No.		BM-180E	BM-370E	BM-550E	BM-750E
Drive Model No.		SWAN2V202	SWAN2V204	SWAN5V205	SWAN6V407
Input Voltage	VDC	24	24	24	48
Drive Max. Voltage	VDC	30	30	30	60
Rate Power	W	180	370	550	750
Rate Torque	Kg-cm	6.1	12.2	18.1	24.4
Max. Torque	Kg-cm	16.8	34.2	77.3	69.8
Rate Current	A	9.3	18.6	27.6	18.6
Max. Current	A	26.1	52	77	52
Rate Speed	RPM	3000	3000	3000	3000
Motor Dimensions		Fig.2	Fig.4	Fig.6	Fig.7
Drive Dimensions		Fig.B	Fig.B	Fig.C	Fig.E

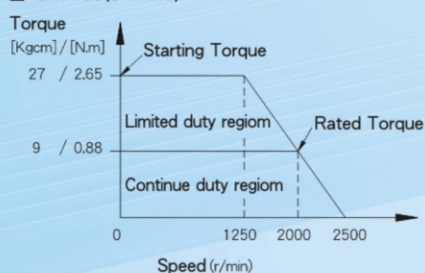
Motor Model No.		BM-1500E	BM-2200E	BM-3700E
Drive Model No.		SWAN6V415	SWAN6V422	SWAN9V437
Input Voltage	VDC	48	48	48
Drive Max. Voltage	VDC	60	60	60
Rate Power	W	1500	2200	3700
Rate Torque	Kg-cm	48.8	73.2	122
Max. Torque	Kg-cm	136.64	205	340
Rate Current	A	36	48	87
Max. Current	A	101	134.4	244
Rate Speed	RPM	3000	3000	3000
Motor Dimensions		Fig.8	Fig.8	Fig.9
Drive Dimensions		Fig.E	Fig.E	Fig.F

Note: The drive functions and protections are varied in different models.

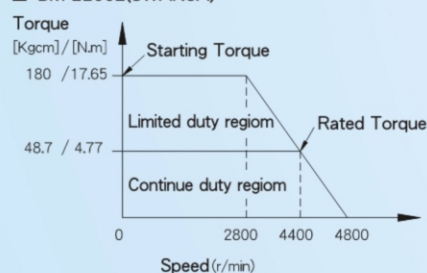


Performance (Torque Control)

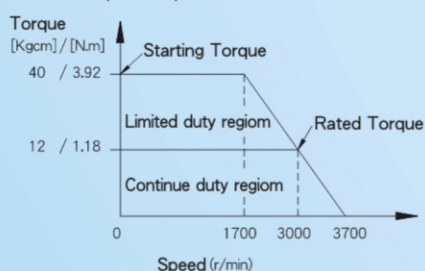
■ BM-180(SWAN2)



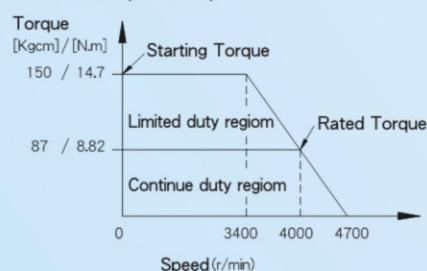
■ BM-2200E(SWAN8A)



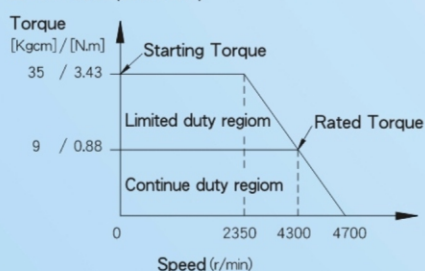
■ BM-370(SWAN2)



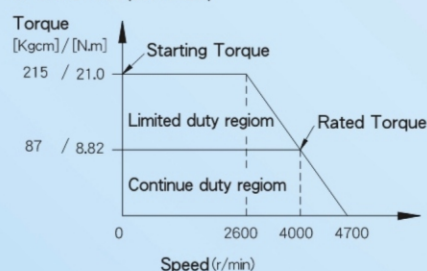
■ BM-3700E(SWAN8A)



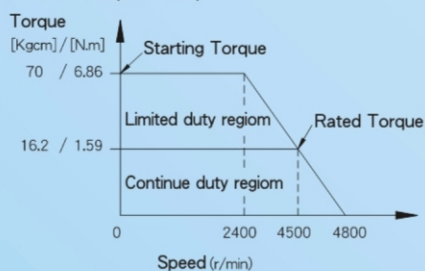
■ BM-400E(SWAN5A)



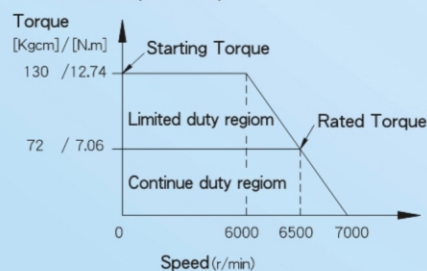
■ BM-3700E(SWAN8B)



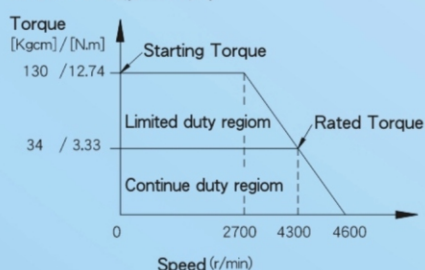
■ BM-750E(SWAN6B)



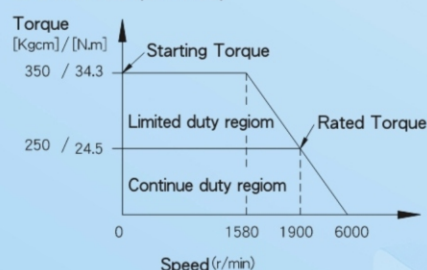
■ BM-5000ES(SWAN8B)



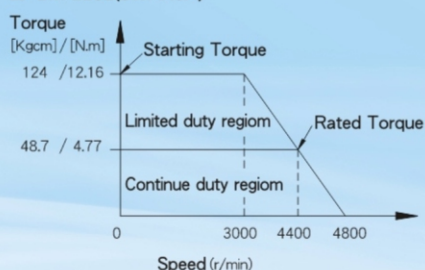
■ BM-1500E(SWAN6A)



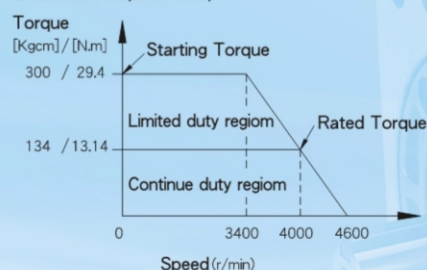
■ BM-5000ER(SWAN8B)



■ BM-220E(SWAN6A)

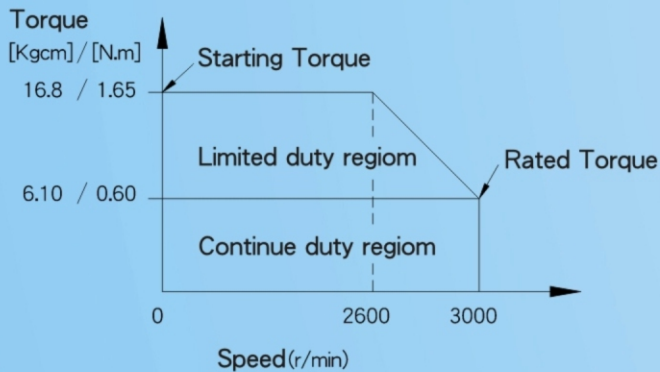


■ BM-5000E(SWAN8C)

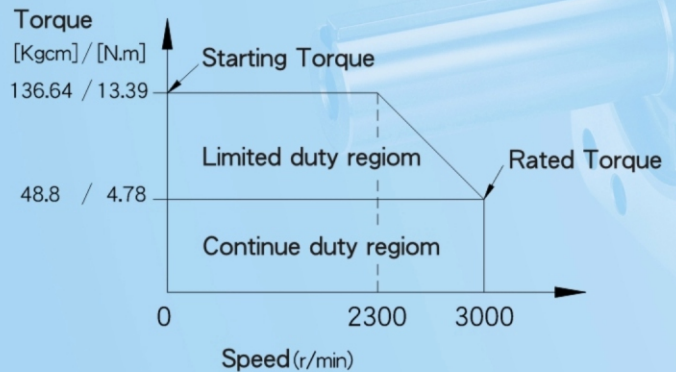


Performance (Speed Control)

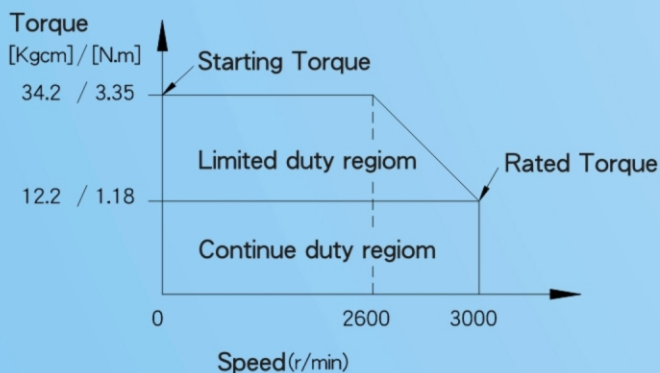
■ BM-180E(SWAN2V202)



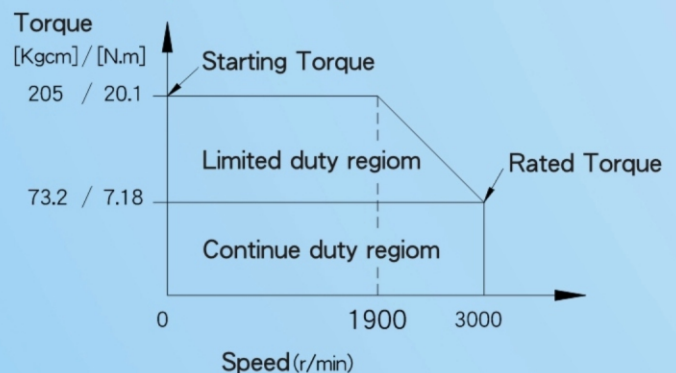
■ BM-1500E(SWAN6V415)



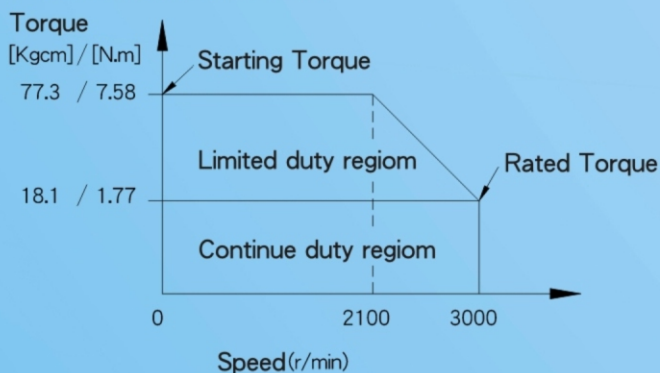
■ BM-370E(SWAN2V204)



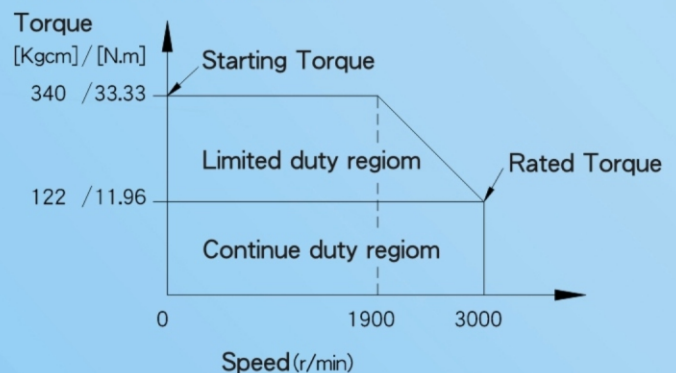
■ BM-2200E(SWAN6V422)



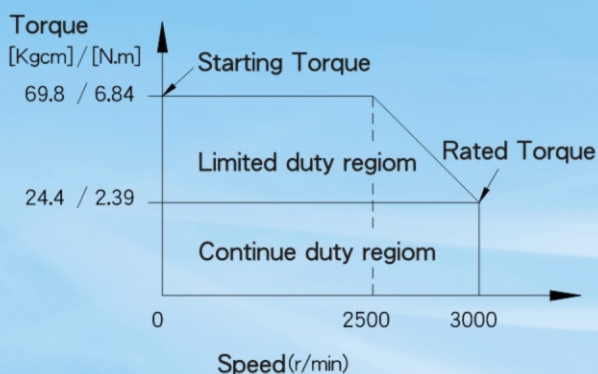
■ BM-550E(SWAN5V205)



■ BM-3700E(SWAN8V437)



■ BM-750E(SWAN6V407)



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