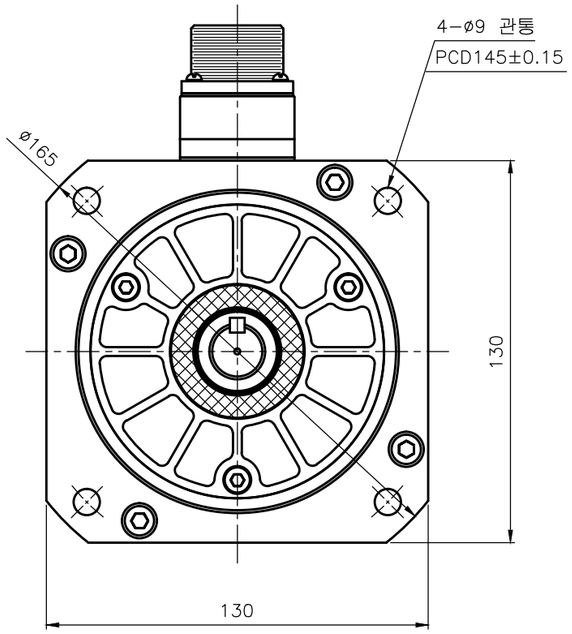
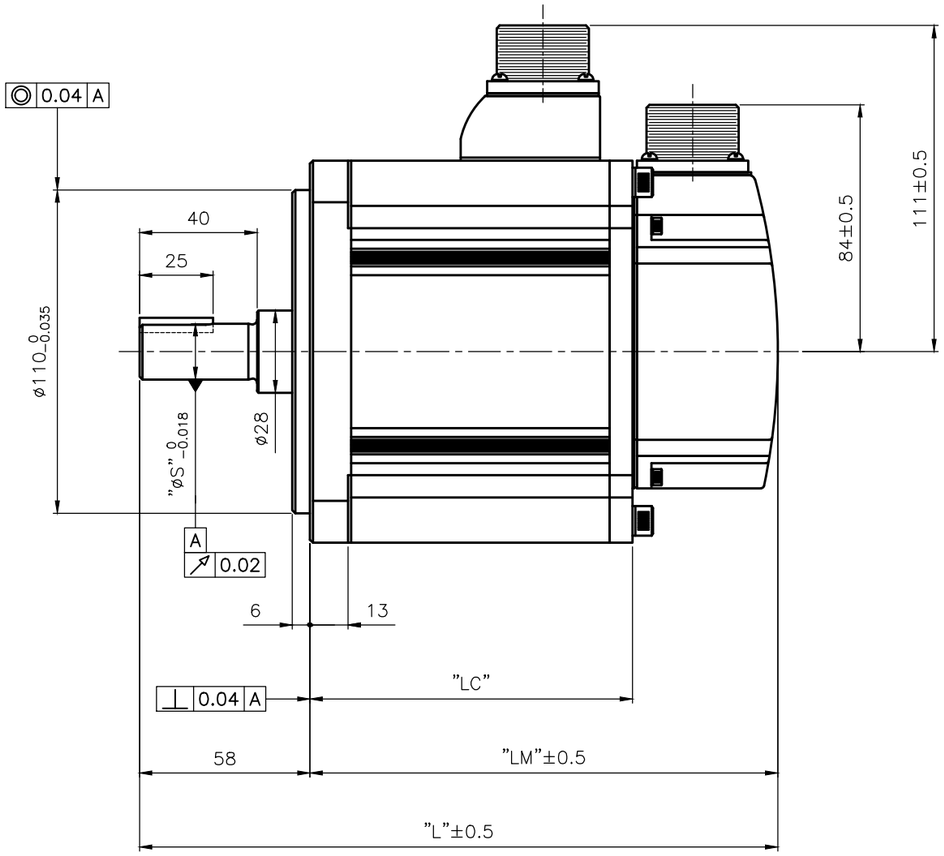
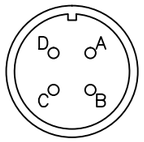
소요수 QTY				품번 ITEM	품명 DESCRIPTION	재질 MATERIAL	규격 SPECIFICATION	비고 REMARK
G04	G03	G02	G01					
			1	01	Out Line		APM-FEP09A/06D/05G/03MMK1	Key, OilSeal Type
		1		02	Out Line		APM-FEP15A/11D/09G/06MMK1	Key, OilSeal Type
	1			03	Out Line		APM-FEP22A/16D/13G/09MMK1	Key, OilSeal Type
1				04	Out Line		APM-FEP30A/22D/17G/12MMK1	Key, OilSeal Type



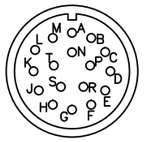




MS3102A20-4P
(4 pole plug)

Pin No.	Phase
A	U
B	V
C	W
D	FG

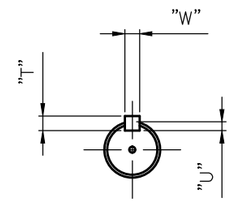
<Power Connector 핀 배열>



MS3102A20-29P
(17 pole plug)

Pin No.	Encoder Phase	Pin No.	Encoder Phase
A	MA	M	–
B	$\overline{MA}$	N	–
C	SLO	P	–
D	$\overline{SLO}$	R	–
E	VDD_B	H	+5V
F	GND_B	G	0V
K	–	J	SHIELD
L	–		

<Encoder Connector 핀 배열>



<Shaft Dimensions>

<외형 치수>

군 번	Part No.	모델명	L	LM	LC	S	T	W	U
G01	47160697	APM-FEP09AMK1	197.3	139.3	89.8	19	5	5	3
	47160703	APM-FEP06DMK1							
	47160716	APM-FEP05GMK1							
	47160732	APM-FEP03MMK1							
G02	47160698	APM-FEP15AMK1	217.3	159.3	109.8	19	5	5	3
	47160704	APM-FEP11DMK1							
	47160717	APM-FEP09GMK1							
	47160733	APM-FEP06MMK1							

군 번	Part No.	모델명	L	LM	LC	S	T	W	U
G03	47160699	APM-FEP22AMK1	237.3	179.3	129.8	22	6	6	3.5
	47160705	APM-FEP16DMK1							
	47160718	APM-FEP13GMK1							
	47160734	APM-FEP09MMK1							
G04	47160700	APM-FEP30AMK1	255.3	197.3	147.8	24	7	8	4
	47160706	APM-FEP22DMK1							
	47160719	APM-FEP17GMK1							
	47160735	APM-FEP12MMK1							

무지정 공차	
치수 구분	기본 공차
~3mm 이하	±0.10
3~6mm 이하	±0.12
6~10mm 이하	±0.15
10~18mm 이하	±0.18
18~30mm 이하	±0.21
30~50mm 이하	±0.25
50~80mm 이하	±0.30
80~120mm 이하	±0.35
120~180mm 이하	±0.40
180~250mm 이하	±0.46
250~315mm 이하	±0.52
315~400mm 이하	±0.57
400~500mm 이하	±0.63
500mm 초과	±0.70

개정 CHANGE	
R0	
1	
2	
3	
4	
5	

LS Mecapion

삼각법 3RD ANGLE PROJECTION	척도 SCALE	제품명 PRODUCT NAME	AP13 Servo Motor
	1/1 , N.S	도면명칭 TITLE	Out Line (Key. OilSeal Type)
단위 UNIT	일자 DATA		
MM	2018.11.01		
설계 DESIGNED	검도 CHECKED	승인 APPROVED	
		도면번호 DWG. NO.	FMP13GA005 1/1
		참조도면 REF. NO.	Ver 1.0