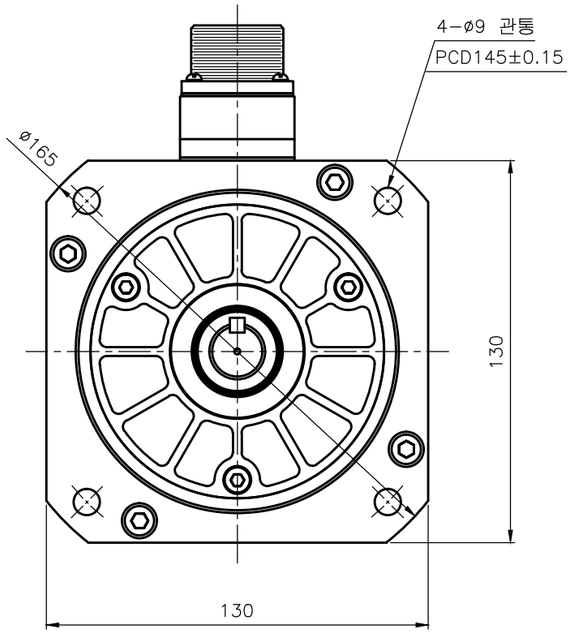
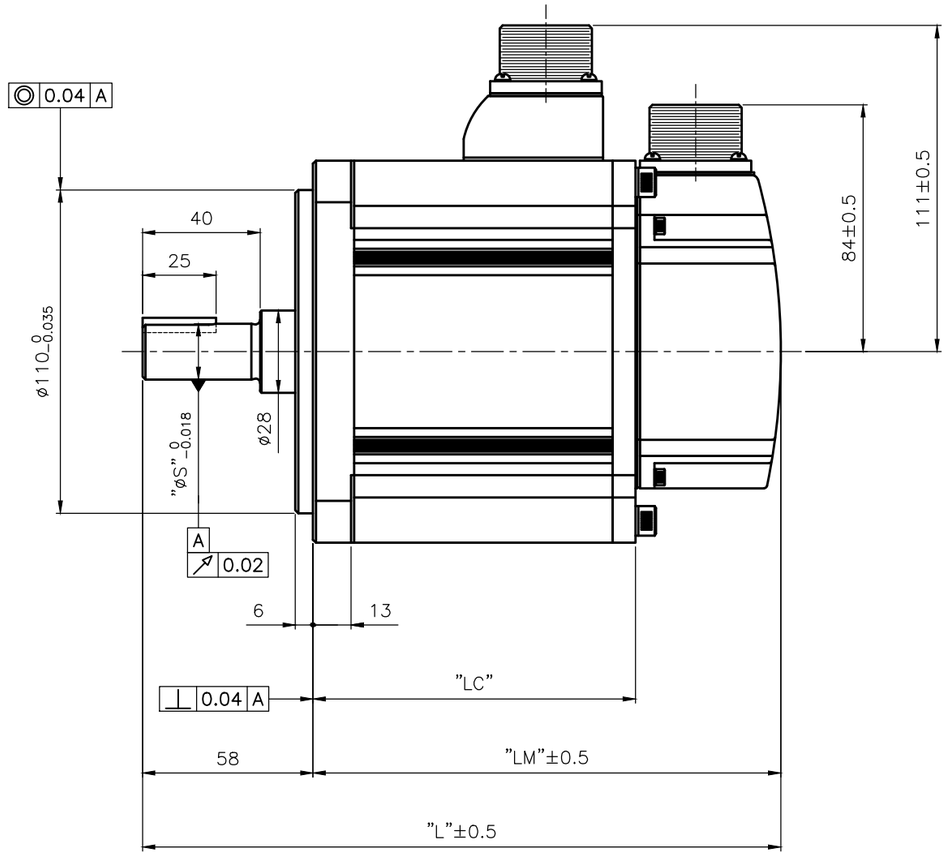
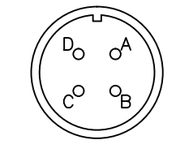
소요수 QTY				품번 ITEM	품명 DESCRIPTION	재질 MATERIAL	규격 SPECIFICATION	비고 REMARK
G04	G03	G02	G01					
			1	01	Out Line		APM-FEP09A/06D/05G/03MMK	Key Type
		1		02	Out Line		APM-FEP15A/11D/09G/06MMK	Key Type
	1			03	Out Line		APM-FEP22A/16D/13G/09MMK	Key Type
1				04	Out Line		APM-FEP30A/22D/17G/12MMK	Key Type



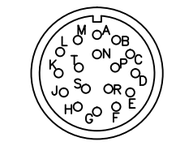




MS3102A20-4P
(4 pole plug)

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

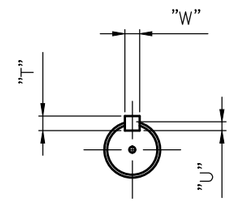
<Power Connector 핀 배열>



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	47160606	APM-FEP09AMK	197.3	139.3	89.8	19	5	5	3
	47160612	APM-FEP06DMK							
	47160625	APM-FEP05GMK							
	47160641	APM-FEP03MMK							
G02	47160607	APM-FEP15AMK	217.3	159.3	109.8	19	5	5	3
	47160613	APM-FEP11DMK							
	47160626	APM-FEP09GMK							
	47160642	APM-FEP06MMK							

군 번	Part No.	모델명	L	LM	LC	S	T	W	U
G03	47160608	APM-FEP22AMK	237.3	179.3	129.8	22	6	6	3.5
	47160614	APM-FEP16DMK							
	47160627	APM-FEP13GMK							
	47160643	APM-FEP09MMK							
G04	47160609	APM-FEP30AMK	255.3	197.3	147.8	24	7	8	4
	47160615	APM-FEP22DMK							
	47160628	APM-FEP17GMK							
	47160644	APM-FEP12MMK							

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		
단위 UNIT	일자 DATA	도면명칭 TITLE	Out Line (Key Type)
MM	2018.11.01		
설계 DESIGNED	검도 CHECKED	승인 APPROVED	
		도면번호 DWG. NO.	FMP13GA001 1/1
		참조도면 REF. NO.	Ver 1.0