

This Is An Original Product From Fulham Co., Inc

Description: Sinehorse Series, High Frequency Electronic, Drop In Replacement for Magnetic, Parallel Wiring, Indoor and Outdoor Sign Applications

This Ballast Will Operate Following Lamps.

For 1, 2 or 3 x T12HO lamps (F36, F48, F60, F72, F84, F96, F120) TOTAL 3ft - 24ft No single lamp may be longer than 10ft No single lamp may be shorter than 3ft

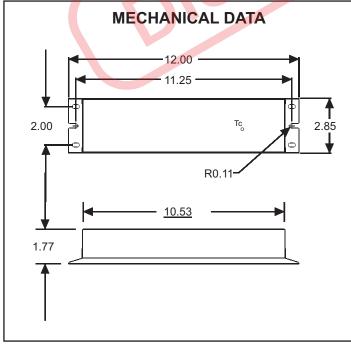
For 1, 2 or 3 x T8HO lamps (F36, F48, F60, F72, F84, F96) TOTAL 3ft - 21ft No single lamp may be longer than 8ft No single lamp may be shorter than 3ft

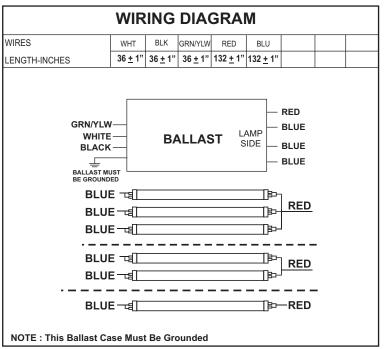
Not Higher Power Factor when using following lamp type: 1 x F36T12HO to F96T12HO, F36T8HO to F96T8HO 2 x F36T12HO to F72T12HO, F36T8HO to F60T8HO

3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (120V APPLICATION)

INPUT VOLT: 120V ± 10%	, 50/60Hz			-				-	
LAMP WATTS/TYPE	F36T8HO	F36T8HO	F36T8HO	F36T12HO	F36T12HO	F36T12HO	F48T8HO	F48T8HO	F48T8HO
LAMPS OPERATED	1	2	3	1	2	3	1	2	3
INPUT WATTS	47	70	90	43	64	81	60	94	121
LINE CURRENT:	0.40	0.58	0.75	0.36	0.54	0.68	0.50	0.78	1.01
POWER FACTOR	0.98	0.99	0.99	0.98	0.99	0.99	0.99	0. <mark>9</mark> 9	0.99
BALLAST FACTOR	1.35	1.10	0.94	0.53	0.43	0.37	1.33	1.09	0.93
EFFICACY FACTOR	2.89	1.58	1.05	1.24	0.68	0.46	2.21	1.16	0.77
THD	10.5%	8.1%	6.4%	11.2%	8.4%	7.1%	8.8%	6.1%	5.0%
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-C	Consumer)			
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STAF	RT			
VOLTAGE TRANSIENTS				ŀ	WSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP				70)°C (158°C)	_		
APPROVALS/CLASS	1		UL /cUL	LISTED, CI	_ASS "P",	Type 2 OUT	DOOR	•	





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2012-354-1 rev A



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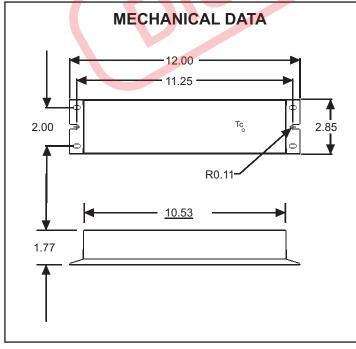
For 1, 2 or 3 x T12HO lamps (F36, F48, F60, F72, F84, F96, F120) TOTAL 3ft - 24ft No single lamp may be longer than 10ft No single lamp may be shorter than 3ft

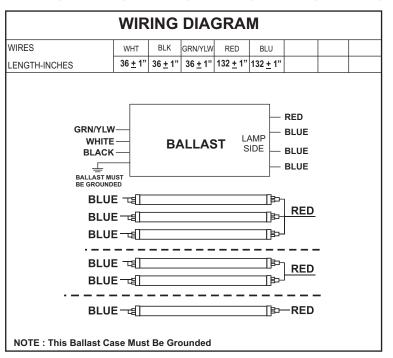
For 1, 2 or 3 x T8HO lamps (F36, F48, F60, F72, F84, F96) TOTAL 3ft - 21ft No single lamp may be longer than 8ft No single lamp may be shorter than 3ft

Not Higher Power Factor when using following lamp type: 1 x F36T12HO to F96T12HO, F36T8HO to F96T8HO 2 x F36T12HO to F72T12HO, F36T8HO to F60T8HO 3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (120V APPLICATION)

INPUT VOLT: 120V ± 10%	, 50/60Hz						•		
LAMP WATTS/TYPE	F48T12HO	F48T12HO	F48T12HO	F60T8HO	F60T8HO	F60T8HO	F60T12HO	F60T12HO	F60T12HO
LAMPS OPERATED	1	2	3	1	2	3	1	2	3
INPUT WATTS	54	80	102	70	112	146	63	97	125
LINE CURRENT:	0.45	0.66	0.84	0.58	0.93	1.18	0.53	0.81	1.03
POWER FACTOR	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0. <mark>9</mark> 9	0.99
BALLAST FACTOR	0.52	0.43	0.37	1.32	1.07	0.92	0.52	0.42	0.37
EFFICACY FACTOR	0.98	0.54	0.36	1.90	0.96	0.63	0.83	0.44	0.29
THD	9.6%	7.2%	5.9%	8.7%	6.1%	5.0%	9.2%	6.6%	5.5%
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-C	Consumer)			
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STAF	RT			
VOLTAGE TRANSIENTS				ŀ	WSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP				70)°C (158°C)	•		·
APPROVALS/CLASS	1		UL /cUL	LISTED, CI	LASS "P",	Type 2 OU	rdoor		





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2012-354-2 rev A



This Is An Original Product From Fulham Co., Inc

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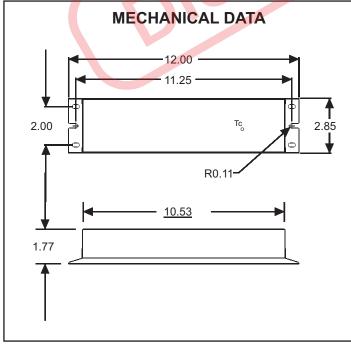
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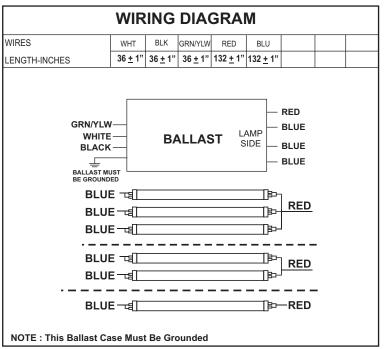
Not Higher Power Factor when using following lamp type: 1 x F36T12HO to F96T12HO, F36T8HO to F96T8HO 2 x F36T12HO to F72T12HO, F36T8HO to F60T8HO

3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (120V APPLICATION)

INPUT VOLT: 120V ± 10%	, 50/60Hz			-			-	-	-
LAMP WATTS/TYPE	F72T8HO	F72T8HO	F72T8HO	F72T12HO	F72T12HO	F72T12HO	F84T12HO	F84T12HO	F84T12HO
LAMPS OPERATED	1	2	3	1	2	3	1	2	3
INPUT WATTS	81	130	172	74	114	149	83	128	169
LINE CURRENT:	0.67	1.08	1.43	0.62	0.94	1.24	0.69	1.05	1.41
POWER FACTOR	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0. <mark>9</mark> 9	0.99
BALLAST FACTOR	1.32	1.07	0.91	0.52	0.42	0.36	0.51	0.42	0.36
EFFICACY FACTOR	1.62	0.82	0.53	0.70	0.37	0.24	0.62	0.33	0.21
THD	7.2%	4.9%	3.8%	7.8%	5.5%	5.0%	7.8%	5.7%	4.4%
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-0	Consumer)		-	
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STAF	RT			
VOLTAGE TRANSIENTS				F	WSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP		70°C (158°C)							
APPROVALS/CLASS	1		UL/cUL	LISTED, CI	LASS P,	Type 2 OUT	TDOOR	•	·





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2012-354-3 rev A



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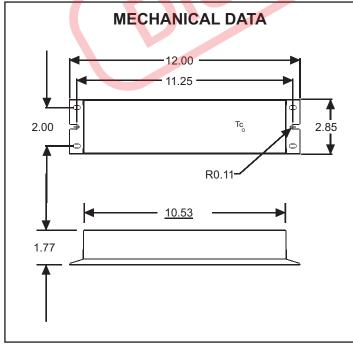
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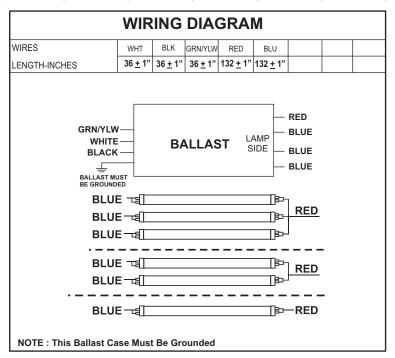
Not Higher Power Factor when using following lamp type: 1 x F36T12HO to F96T12HO, F36T8HO to F96T8HO 2 x F36T12HO to F72T12HO, F36T8HO to F60T8HO

3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (120V APPLICATION)

INPUT VOLT: 120V ± 10%	, 50/60Hz								-
LAMP WATTS/TYPE	F96T12HO	F96T12HO	F96T12HO	F96T8HO	F96T8HO	F120T12HO	F120T12HO		
LAMPS OPERATED	1	2	3	1	2	1	2		
INPUT WATTS	93	146	189	103	168	109	176		
LINE CURRENT:	0.77	1.22	1.57	0.86	1.38	0.91	1.46		
POWER FACTOR	0.99	0.99	0.99	0.99	0.99	0.99	0.99		
BALLAST FACTOR	0.51	0.42	0.35	1.28	1.05	0.50	0.41		
EFFICACY FACTOR	0.55	0.28	0.19	1.24	0.62	0.46	0.23		
THD	6.4%	4.5%	3.5%	5.8%	3.9%	5.5%	4.1%		
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-0	Consumer)			
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STA	RT			
VOLTAGE TRANSIENTS				F	NSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP		70°C (158°C)							
APPROVALS/CLASS	1		UL/cUL	LISTED, CI	ASS"P",	Type 2 OU1	rdoor -		





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2012-354-4 rev A



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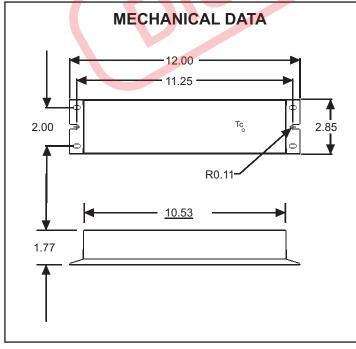
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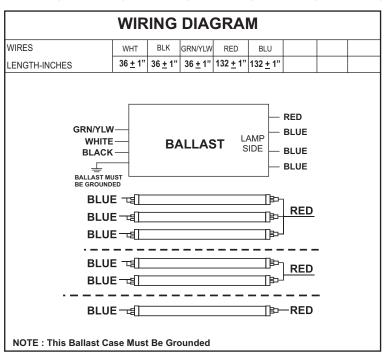
Not Higher Power Factor when using following lamp type: 1 x F36T12HO to F96T12HO, F36T8HO to F96T8HO 2 x F36T12HO to F72T12HO, F36T8HO to F60T8HO

3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (277V APPLICATION)

INPUT VOLT: 277V ± 10%	, 50/60Hz							-	
LAMP WATTS/TYPE	F36T8HO	F36T8HO	F36T8HO	F36T12HO	F36T12HO	F36T12HO	F48T8HO	F48T8HO	F48T8HO
LAMPS OPERATED	1	2	3	1	2	3	1	2	3
INPUT WATTS	48	71	89	44	64	81	61	94	120
LINE CURRENT:	0.25	0.31	0.37	0.24	0.29	0.35	0.29	0.38	0.47
POWER FACTOR	0.69	0.81	0.87	0.66	0.78	0.85	0.77	0. <mark>8</mark> 8	0.92
BALLAST FACTOR	1.35	1.10	0.94	0.53	0.43	0.37	1.33	1.09	0.93
EFFICACY FACTOR	2.83	1.55	1.05	1.21	0.67	0.46	2.18	1.17	0.78
THD	27.7%	21.2%	17.6%	32.0%	22.9%	19.2%	23.4%	16.7%	14.0%
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-C	Consumer)		-	,
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STAF	RT			
VOLTAGE TRANSIENTS				F	WSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP		70°C (158°C)							
APPROVALS/CLASS	1		UL/cUL	LISTED, CI	LASS "P",	Type 2 OUT	DOOR	_	





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2012-354-5 rev A



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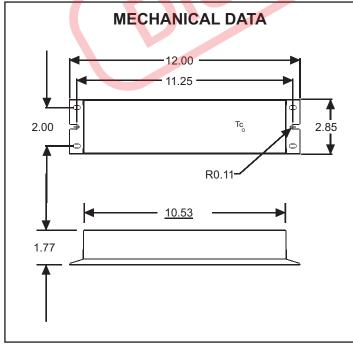
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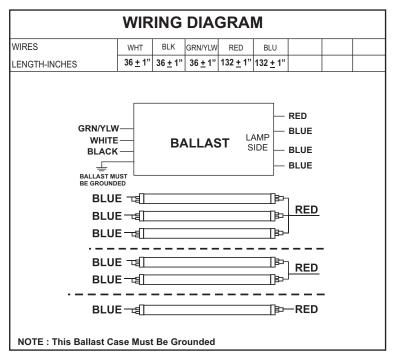
Not Higher Power Factor when using following lamp type: 1 x F36T12HO to F96T12HO, F36T8HO to F96T8HO 2 x F36T12HO to F72T12HO, F36T8HO to F60T8HO

3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (277V APPLICATION)

INPUT VOLT: 277V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F48T12HO	F48T12HO	F48T12HO	F60T8HO	F60T8HO	F60T8HO	F60T12HO	F60T12HO	F60T12HO
LAMPS OPERATED	1	2	3	1	2	3	1	2	3
INPUT WATTS	54	80	101	70	111	145	63	96	124
LINE CURRENT:	0.27	0.34	0.41	0.31	0.44	0.56	0.29	0.39	0.48
POWER FACTOR	0.73	0.84	0.89	0.80	0.91	0.94	0.78	0. <mark>8</mark> 8	0.92
BALLAST FACTOR	0.53	0.43	0.37	1.32	1.07	0.92	0.52	0.43	0.37
EFFICACY FACTOR	0.97	0.53	0.36	1.88	0.97	0.63	0.83	0.44	0.30
THD	25.8%	18.9%	15.6%	23.7%	16.2%	13.5%	24.7%	17.3%	14.5%
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-C	Consumer)			
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STAF	RT			
VOLTAGE TRANSIENTS				F	WSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)	•	•	·
MAX. CASE TEMP				70)°C (158°C)			
APPROVALS/CLASS	1		UL/cUL	LISTED, CI	_ASS " P ",	Type 2 OU	TDOOR		





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2012-354-6 rev A



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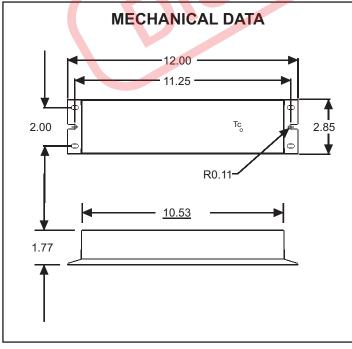
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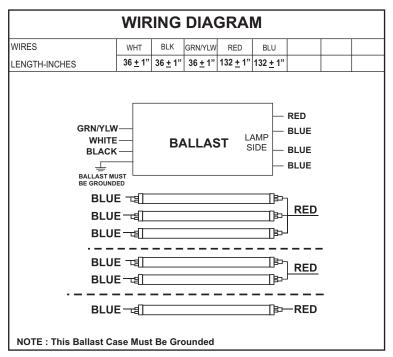
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3 x F36T12HO to F48T12HO, F36T8HO

ELECTRICAL DATA (277V APPLICATION)

INPUT VOLT: 277V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F72T8HO	F72T8HO	F72T8HO	F72T12HO	F72T12HO	F72T12HO	F84T12HO	F84T12HO	F84T12HO
LAMPS OPERATED	1	2	3	1	2	3	1	2	3
INPUT WATTS	82	129	168	74	113	147	81	127	166
LINE CURRENT:	0.35	0.50	0.63	0.32	0.45	0.56	0.35	0.49	0.62
POWER FACTOR	0.85	0.93	0.95	0.82	0.91	0.94	0.84	0.92	0.95
BALLAST FACTOR	1.31	1.07	0.91	0.52	0.42	0.36	0.51	0.42	0.36
EFFICACY FACTOR	1.61	0.83	0.54	0.70	0.37	0.24	0.63	0.33	0.22
THD	19.0%	14.0%	11.7%	20.7%	15.2%	12.4%	20.5%	14.5%	12.2%
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-C	Consumer)			
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STAF	RT			
VOLTAGE TRANSIENTS				F	NSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP				70)°C (158°C)	•	•	
APPROVALS/CLASS	1		UL/cUL	LISTED, CI	_ASS " P ",	Type 2 OU1	TDOOR		





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2012-354-7 rev A



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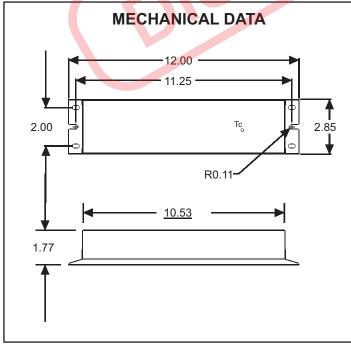
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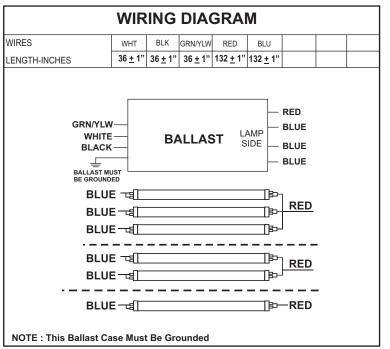
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ELECTRICAL DATA (277V APPLICATION)

INPUT VOLT: 277V ± 10%	, 50/60Hz				-		-	-	
LAMP WATTS/TYPE	F96T12HO	F96T12HO	F96T12HO	F96T8HO	F96T8HO	F120T12HO	F120T12HO		
LAMPS OPERATED	1	2	3	1	2	1	2		
INPUT WATTS	92	144	185	103	166	108	171		
LINE CURRENT:	0.38	0.55	0.69	0.41	0.63	0.43	0.64		
POWER FACTOR	0.87	0.94	0.96	0.89	0.95	0.90	0.96		
BALLAST FACTOR	0.51	0.41	0.35	1.28	1.05	0.50	0.41		
EFFICACY FACTOR	0.55	0.29	0.19	1.25	0.63	0.46	0.24		
THD	17.5%	13.3%	11.2%	15.4%	11.5%	15.1%	11.5%		
EMI/RFI COMPLIANCE			F	CC PART	18-A (Non-0	Consumer)			
SOUND RATING					"A"				
BALLAST TYPE				INS	TANT STA	RT			
VOLTAGE TRANSIENTS				1	NSI 61.42				
INPUT/PROTECTION					FUSE				
MIN. OPERATING TEMP				-3	0°C (-22°F)			
MAX. CASE TEMP				70)°C (158°C	()			
APPROVALS/CLASS	1		UL /cUL	LISTED, CI	LASS "P",	Type 2 OU7	TDOOR	•	





Fulham extends a limited warranty only to the original purchaser or to the first user for a period of 5 years from the date of manufacture when properly installed and operated under normal conditions of use. For complete terms and conditions, please reference the Fulham product catalog (www.fulham.com) Due to a program of continuous improvement, Fulham reserves the right to make modifications or variations in design or construction to the equipment described.

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