Chapter 54

ACTUATOR, WESTERN, TYPE ERJ 60 MK. 18

LIST OF CONTENTS

				Para.			F	Para.
Introduction				1	Electrical connection	 	 	3
Description					Installation and servicing	 ,		4
Application and I	oading			2				

ILLUSTRATION

		Fig.
Installation drawing	 	1

LEADING PARTICULARS

Actuator, Wes	ERJ 60,	Mk.	18	Stores Ref. 5					
Voltage range		1111		1111			2223		18 to 29 volt d.c.
Rating	11.11								l minute
Normal full loa	d	****							60 lb. in.
Maximum work	22.0		****			5525	85 lb. in.		
Angular travel	of cou	þling	****	0.00		65.65			75 deg + 0 deg. — 2 deg.
Weight						2224			2 lb. 5 oz.
Overall length		5000							6·10 in.
Electrical plug					****	20.00	10.55	Mk. 4	Breeze (CZ48995)

Introduction

1. The Western Type ERJ.60 series of actuators is described in A.P.4343, Vol. 1, Sect. 17, Chap. 1, Appendix 7. The Mk. 18 varies from others in this series only in amount of travel of the coupling with its visual indicator, and in the type of electrical connection plug.

DESCRIPTION

Application and loading

2. The snap action limit switches in the Mk. 18 are adjusted during assembly to permit 75 deg. angular travel of the coupling shaft. This adjustment requires the use of a manufacturers special rig, and no attempt should be made to alter the setting. Detail of the movement of the coupling shaft relative to the mounting flange is shown (fig. 1). The operating times under various loadings at nominal 28 volt, is as follows:—

Load	Maximum current	Angular Travel Time
(lb. in.)	(amp.)	(seconds)
O	3.0	$0 \cdot 4$
30	3.8	0.6
60	$4 \cdot 2$	0.8

Electrical connection

3. A Mk. 4 miniature Breeze, 6-pole plug is fitted, of which pole F is not used. When connecting the free socket to this plug, care must be exercised to ensure correct alignment, and so avoid damaging the moulded projection of the plug.

Installation and servicing

4. Information on installation and servicing of this type of actuator will be found in A.P.4343, Vol. 1, Sect. 17, Chap. 1 and App. 7, also in the relevant Aircraft Handbook.

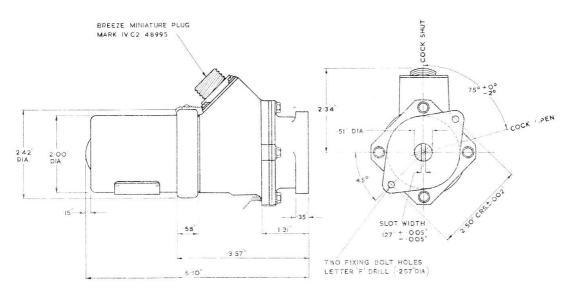


Fig. I. Installation drawing